User Manual

CanMap® Streetfiles V5.0

really smart spatial solutions™

www.dmtispatial.com

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About DMTI Spatial™

DMTI Spatial Inc. is Canada's leading spatial solutions provider that enables users to understand their customers, optimize resources, realize opportunities, maximize profitability and make more informed decisions through accurate products and innovative thinking.

DMTI Spatial publishes precision built street map data (CanMap®), and innovative geocoding software (GeoPinpoint™). In addition, DMTI Spatial publishes a full range of positionally accurate geo-spatial data products including; census data and boundaries, postal geography, topographic maps, marketing databases, and US maps & data. As part of a complete business geographic solution, DMTI Spatial offers a wide range of GIS services, consulting, and software training.

Established in 1994, DMTI Spatial is dedicated to serving its customer's specific Geographical Information System requirements. Committed to setting the standard within the GIS industry for precision built street map data, innovative geocoding technology and positionally accurate geo-spatial datasets, DMTI Spatial believes the key to its customer's success is quality, customer service and in providing a complete geographic solution.

At DMTI Spatial, we believe that our true strength comes from working closely with our customer base and providing innovative spatial solutions to meet their strategic business requirements. As Canada's premier solution spatial provider we pride ourselves with having worked with North America's leading organizations to help them achieve their business geographic requirements.

DMTI Spatial has worked strategically with large and small organizations represented from a wide range of industries:

Agriculture
Banking/Finance
Consulting
Education
Emergency Services
Engineering
Environmental
Forestry
Government
Health
High Technology
Insurance
Manufacturing
Media
Mining
Real Estate
Retail
Telecommunications
Transportation
Utilities

In October 2000, the Markham Board of Trade selected DMTI Spatial as the co-winner of the board's prestigious Business Excellence Award for Entrepreneurship and Innovation.

DMTI Spatial a member of the ESRI Business Partner Program.

Really Smart Spatial Solutions

Through the application of its products and services, DMTI Spatial has been involved with projects such as: logistic planning, emergency dispatch, facilities management, data management, customer care, land base development in support of network planning, and marketing/demographic analysis applications. DMTI Spatial can provide all of the components necessary for the acquisition, implementation, operation and maintenance of a successful GIS system within companies of all sizes. Through its product and service offering, DMTI Spatial can provide users with 5 key components for a successful GIS application:

- Accurate and compatible data products and base maps
- Comprehensive Maintenance Subscription program
- GIS software
- Consulting and services
- Software training

For more information on DMTI Spatial's Geographic Solutions for Business, please visit www.dmtispatial.com

DMTI Spatial Product & Service Portfolio

DMTI Spatial's product & service offering includes:

CanMap - *Digital Street Maps for Canada*
- CanMap® Streetfiles
- CanMap® Major Roads and Highways
- CanMap® RouteLogistics

GeoPinpoint™ - *Canada's Geocoding Solution*
- Standalone Geocoder
- ActiveX Control (OCX)
- UNIX Version

Points of Interest Layers
- Education
- Health Care
- Accommodation
- Car Rental Agencies
- Border Crossings & Customs Offices

Topographic Data and Base Maps
- Canadian Atlas Map Bundle
- National Topographic Data Base
- Canadian Digital Elevation Model
- Clutter Data

Postal Geography & Data
- Six-Digit Postal Code File
- Enhanced Postal Code File
- Forward Sortation Area (FSA) Boundary File

1996 Census Demographic Boundaries & Data
- Enumeration Area (EA)
- Census Subdivision (CSD)
- Census Division (CD)
- Census Metropolitan Area/Census Agglomeration (CMA/CA)
- Census Tract (CT)
- Federal Electoral Districts (FED)

GIS Software
- For the Desktop
- For the Developer

Consulting and Services
- GIS Consulting
- Application Development
- Database Marketing
- Data Conversion and Creation
- Database Scrubbing
- Geocoding Services
- Technical Support
- Training

If there is a map, data set, software package or service that you need and it is not listed, please contact DMTI Spatial. For technical product or service inquiries, please email us at support@dmtispatial.com

We are constantly looking for ideas on how to improve our products and for new tools you need to stay competitive. We welcome your input, and look forward to being your solution provider for value-added geo-spatial products and services. To submit your feedback, please email us at wishlist@dmtispatial.com

By using our data everyday in your mission critical application, you are our best product tester. Please let us know if you have found an error in any of our products so that we can make the correction as soon as possible. To report your finding, please email us at fixme@dmtispatial.com

Contacting DMTI Spatial

Address:

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Markham, Ontario
L3R 9R9 Canada

Toll Free: 1-877-477-DMTI (3684)
Telephone: 905-948-2000
Fax: 905-948-9404

URL: www.dmtispatial.com
Email: info@dmtispatial.com

About CanMap® Streetfiles

CanMap® Streetfiles was developed by DMTI Spatial to meet the need for a complete, accurate, and up-to-date street map data product for large and small communities across Canada.

CanMap® Streetfiles provides you with comprehensive street name and address range coverage for communities across Canada. It also provides you with the highest level of detailed topographic and geographic features for all major urban areas throughout Canada.

Nationwide Features

- Topographic coverage to 156 urban areas, which covers approximately 76% of Canada's population (as of the 1996 Census)
- Street centerline road network
- Street names for communities 1,000+ population
- Street address ranges for communities 2,000+ population
- Regional & Municipal boundaries
- 6 cartographic classifications
- Major roads and highways are included in a separate layer which are cartographically distinguishable from other streets
- Canada/US border crossing (point of entry) - including the name of the US road that links to the Canadian road across the border
- GPS - ready high positional accuracy
- Workspace/Project to open all files with zoom layering

In addition to these nationwide features, CanMap® Streetfiles Major Cities include:

- Land-use classifications
- Points of interests
- Building footprints
- Buffered street centreline road network casements
- Railway and Utility features
- Airport locations in urban areas including airport name and code
- Topographic features
- Named geographic features

Benefits

Updated quarterly and built to rigorous cartographic standards, CanMap® Streetfiles is shipped in Plug & Play format in the world's leading GIS software formats. This enables you to:

- Locate your resources or customer data with superior accuracy
- Display and analyze your data on a nationwide standard
- Enhance your application with realism, landmark proximity, and detail
- Enable your GPS solution with an accurate base and clearly defined national transportation infrastructure
- Geo-referenced aerial photography with CanMap® Streetfiles
- View data in logical zoom layers for ease of use
- Keep data current with quarterly or annual maintenance
- Seamlessly combine with DMTI Spatial's data sets for organization-wide applications

Special Bonus

Every order of CanMap® includes a free Canada Directory that includes Canada-wide boundaries for Area Codes, Time Zones, Provinces, Regional Municipalities, DMTI Spatial major cities in addition to a coarse water layer, as well as 1996 CSD boundaries with Census Data. This allows you to instantly and accurately understand where your geography falls within Canada…no more cities floating in space!

Coverage: Nationwide
Currency: Quarterly, semi-annual, or annual Maintenance Subscriptions available
Formats: Autodesk MapGuide, Arcview, E00 and MapInfo
Custom formats available upon request.

Using CanMap® Streetfiles V5.0

DMTI Spatial™ has provided you with custom workspaces for MapInfo, project files for ArcView and Map Window Files for MapGuide that have been created to maximize the ease of use of the CanMap® Streetfiles V5.0 files. In each of these formats the data files have been layered, and will turn on and off based on the optimum viewing scale for each layer. Other formats such as MidMif and E00 will not have any workspaces or projects provided. For MidMif and E00 formats, please refer to the section: Suggested CanMap® Streetfiles V5.0 Layering. For MapGuide format, please refer to *Appendix C: CanMap® Data Set Configurations for MapGuide*.

There are three workspaces/project files/map window files to choose from. They will allow you to open all of the topographic files to take advantage of all the V5.0 layers, to open only a limited number of files for geocoding or analysis purposes, or to open the files contained in the free Canada directory.

Workspaces, Project Files & Map Window Files

The RDS and TOP workspaces/project files are prefixed with the CanMap® Region Code and suffixed by the short form of the workspace name. For example, the Ontario Roads workspace is named Onrds. For a list of codes and their descriptions, please refer to the section: *CanMap® Region Codes*.

File Name	Description
rds	Opens and zoom layers Roads, Major Roads and Highways, Highways, Municipal and Regional Municipal Boundaries, National Water, and Provincial Boundaries.
top	Opens and zoom layers all of the CanMap® V5.0 files and includes labeling of Roads, Highways, Major Roads and Highways, Municipalities, Regional Municipalities, Provinces.[1] Includes legend.
CANADA	Opens and zoom layers Topographic Area Boundaries, Regional Municipalities, Provincial Boundaries and National Water for all of Canada.

Attention MapGuide Users:

For more information on configuring MapGuide with CanMap® data, please refer to *Appendix C: CanMap® Data Set Configuration for MapGuide*.

Attention ArcView Users:

DMTI Spatial provides ArcView users with a tool that allows the user to label in the CanMap® TOP project file. The inclusion of this tool eliminates the existence of labels in the project file, significantly decreasing it's size. Please refer to *Appendix B: CanMap® Label Tool for ArcView* for instructions on using the label tool.

[1]Labeling provided in MapInfo workspaces only. ArcView users please refer to Appendix B for instructions on using the new CanMap Label Tool (see note above).

ArcView Legend Files

Included with each ArcView shape file (.shp) is an ArcView legend file (.avl) with the same name. The ArcView legend files supplied can be used to display the shape file themes with the official CanMap® colours, and line, region and symbol styles when they are opened individually or opened outside of the project files provided.

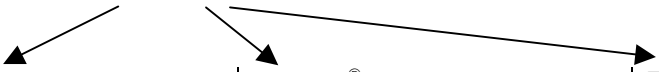
In ArcView 3.0x, the ArcView legend files must be applied manually. Upon adding a shape file to a view, double click on the shape file theme to access the Legend Editor. Click on 'Load' and locate the ArcView legend file of the same name (the .avls are located in the same folder as the .shp files they are meant to be applied to). If the Load Legend dialogue appears, simply click on 'OK'.

In ArcView 3.1, when adding a shape file to a view, the ArcView legend file with the same name will be automatically applied (assuming the .avl file remains in the same location as the .shp file).

File Directory

All files are prefixed with the CanMap® Region Code, suffixed by the short form of the file name.

For example: \STREETS\Onrds



File Directory	CanMap® Region Code	File Name
\STREETS\	ON	rds

The CanMap® Region Code represents the data coverage purchased by the user from DMTI Spatial. For a list of codes and their descriptions, please refer to the section: *CanMap® Region Codes*.

STREETS

Locate these files under the \STREETS\ directory:

File Name	Description
rds	Roads
hrd	Major Roads and Highways
hwy	Highways
exc	Expressways
hpc	Primary highways
hsc	Secondary highways
mrc	Major Roads
lrc	Local Roads
tlc	Trails
mun	Municipal Boundary(ies)
lnk	Canada\USA Roads Linkages
rds_lut	Lookup Tables

TOPO

Locate these files under the \TOPO\ directory:

File Name	Description
bf	Building Footprints
bp	Building Points
hs	Hydrographic Structures
hy	Hydrography
ir	Industrial and Resources
ll	Land Feature Labels
ot	Other Transportation & Routes
ph	Physiography
pt	Pipes and Transmission Lines
ra	Recreation and Amusement Areas
rp	Recreation and Amusement Areas (regions)
ta	Transportation Related Areas
ve	Vegetation
we	Wetlands
wl	Water Feature Labels
lu	Land Use

btl[1]	Bus Transit – Lines
btp[1]	Bus Transit – Points
rtl[1]	Rail Transit – Lines
rtp[1]	Rail Transit – Points

Note to ARC/INFO and ArcView users:
The topographical files will be suffixed with a P (point), L (polyline), or R (region) to describe the type of object in the file. For example, the hydrography layer may be available as an HYP (containing points), HYL (containing polylines), and HYR (containing regions) layers. You may or may not have all of the topographical files depending on whether they exist in your particular geographical area.

POI

Locate these files under the \POI\ directory:

File Name	Description
cul	Cultural
emg	Emergency
fol	Food and Lodgings
gov	Government and Institutional
rec	Recreation and Entertainment
srv	Shopping and Services
trp	Transportation
ppn	Populated Placenames
tlb	Toll Booths
cpl	Car Pool Parking Lots

Attention ArcView Users:
Please refer to *Appendix A: Displaying Points of Interest Files with Proper Fonts* for pertinent information regarding the proper fonts for displaying CanMap® Points of Interest files.

CANADA

Locate these files under the \CANADA\ directory:

File Name & Directory	Description
rmn	Regional Municipality(ies)
wat	National Water
prv	Provincial Boundaries for Canada
top	DMTI Spatial Topographic boundaries for Canada
acb	Canadian Area Code Boundaries
tzs	Canadian Time Zones (Standard Time)
tzv	Canadian Time Zones (Savings Time)
Census\1996\Csd\Bdy \Data	Census Subdivision Boundary (CSD) files & Data

Note: Please refer to the document *Cen96CSD.pdf* that is included in your shipment, for a full description and detailed file structure of all the CSD boundaries and data included in the Canada directory.

[1] Data currently available in selected Major Urban Centers across Canada only.

Suggested CanMap® Streetfiles V5.0 Layering

Workspaces and Project Files cannot be provided for formats such as MidMif and E00.

The MapInfo Interchange format (MidMif) is an ASCII representation of MapInfo files. The MIF file is an ASCII file listing the coordinates for each graphical object. The MID file is an ASCII file containing attribute data for each graphical object. Each object in the MIF file relates to a record in the MID file.

The ARC/INFO Interchange Format (.E00) files define complete ARC/INFO coverages to be used with ESRI's ARC/INFO GIS.

We suggest that you use the following layering system to properly view your CanMap® V5.0 Streetfiles:

ll – Land Feature Labels
wl – Water Feature Labels
bp – Building Points
cul – Cultural
emg – Emergency
fol – Food and Lodgings
gov – Government and Institutional
rec – Recreation and Entertainment
srv – Shopping and Services
trp – Transportation
ppn – Populated Placenames
btp[1] - Bus Transit (Points)
rtp[1] - Rail Transit (Points)
btl[1] - Bus Transit (Lines)
rtl[1] – Rail Transit (Lines)
ra – Recreation and Amusement Areas
pt – Pipes and Transmission Lines
ot – Other Transportation & Routes
bf – Building Footprints
exc[2] - Expressways
hpc[2] – Primary Highways
hsc[2] – Secondary Highways
mrc[2] – Major Roads
lrc[2] – Local Roads
tlc[2] - Trails
rds – Roads
hrd – Major Roads and Highways
hwy – Highways
hs – Hydrographic Structures
ta – Transportation Related Areas
ir – Industrial and Resources
ph – Physiography
we – Wetlands
hy – Hydrography
rp – Recreation and Amusement Areas (regions)
ve – Vegetation
lu – Land Use
wat – National Water
top – DMTI Spatial Topographic boundaries for Canada
rmn – Regional Municipality(ies)
mun – Municipal Boundary(ies)
prv – Provincial Boundaries for Canada

Other CanMap® V5.0 Layers that are not displayed as part of a workspace/project file include:
acb – Canadian Area Code Boundaries
tzs – Canadian Time Zones (Standard Time)
tzv – Canadian Time Zones (Savings Time)
lnk – Canada\USA Roads Linkages
rds_lut – Roads Lookup Table
CSD boundaries & data

For ARC/INFO and ArcView users: The topographical files (2 letter suffixes found in the TOPO directory) will be suffixed with a P (point), L (polyline), or R (region) to describe the type of object in the file. For example, the hydrography layer may be available as a *hyp* (containing points), *hyl* (containing polylines), and *hyr* (containing regions) layers. You may or may not have all of the topographical files depending on whether they exist in your particular geographical area.

[1] Data currently available in selected Major Urban Centers across Canada only.
[2] Casement data currently not available in E00 format.

File Properties

Level of Accuracy
Ranges from National Topographic Data Base (NTDB) standard down to sub-meter

File Size
Please contact DMTI Spatial if you require this information.

Projection
All files are displayed as unprojected latitude, longitude.

Datum
All files are in NAD83 datum.

CanMap® Files – Structure and Contents

Note to MapGuide Users:

A unique ID has been added to all TOPO, POI and selected STREETS layers provided with MapGuide format for purposes of generating reports. This particular field differs from any DMTI Spatial UniqueID's that exist in various roads layers such as rds, hrd, hwy.

Canadian Area Codes (acb)

Location

\CANADA\ directory

Structure

Field Name	Field Type	Field Size	Description
AreaCode	Character	8	Area Code (character)
Prov	Character	8	Province Abbreviation(s). This field may list more than one province in cases of area codes shared between provinces.

Contents

The following list contains the provinces and territories of Canada along with their Telephone Area Codes:

Province	Area Code	Province	Area Code
AB	403	ON	705
AB	780	ON	416
BC	604	ON	905
BC	250	ON	519
MB	204	QC	514
NB	506	QC	450
NF	709	QC	819
NS & PE	902	QC	418
ON	807	SK	306
ON	613	YT & NT	867

Area Code Boundaries

The Area Code Boundaries are based on CanMap® municipalities. They are useful for call center applications. It is recommended that the National Water file be layered on top of the Area Code Boundaries to provide a cartographically pleasing map.

Building Footprints (bf)

Location

\TOPO\ directory

Structure

Field Name	Field Type	Field Size	Description
Code	Decimal	11,0	Classification Code
Feature	Character	76	Feature Type
Category	Character	40	Category of Feature

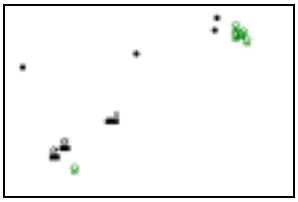
Contents

Categories include: Culture, Emergency, Food and Lodgings, Government and Institutional, Health Care, Recreation and Entertainment, Resource and Industrial, Shopping and Services, Transportation, and Other.

Code	Feature
106	ARENA
107	ARMOURY
108	AUTOMOBILE PLANT
109	BARN/MACHINERY SHED
111	CEMENT PLANT
112	CHEMICAL PLANT
113	CHURCH
114	CITY HALL
115	COAST GUARD STATION
116	COLLEGE
117	COMMUNITY CENTRE
118	CONVENT
119	CORRECTIONAL INSTITUTE
120	COURTHOUSE
120	COURT HOUSE
121	CUSTOMS POST
122	DOME
123	ELECTRIC POWER STATION
124	FACTORY
125	FILTRATION PLANT
126	FIRE STATION
127	FIRE/POLICE STATION
128	FISH HATCHERY
129	FISH PROCESSING PLANT
130	GRAIN ELEVATOR
131	HALL

132	HIGHWAY SERVICE CENTRE
133	HOSPITAL
134	HOSTEL
135	HOTEL
136	KILN (TOBACCO)
137	LUMBER MILL
139	MEDICAL CENTRE
140	MONASTERY
141	MOTEL
142	MUNICIPAL HALL
143	MUSEUM
144	NON-CHRISTIAN PLACE OF WORSHIP
145	OBSERVATORY
146	OIL/GAS FACILITIES BUILDING
146	GAS AND OIL FACILITIES
147	OTHER
149	PARLIAMENT BUILDING
150	PENITENTIARY
151	PETROLEUM REFINERY
152	PLANT
153	POLICE STATION
154	PULP/PAPER MILL
155	RAILWAY STATION
156	REFORMATORY
157	SANATORIUM
158	SATELLITE-TRACKING STATION
159	SAWMILL
160	SCHOOL
161	SEMINARY
162	SENIOR CITIZENS HOME
163	SEWAGE TREATMENT PLANT
164	SHIPYARD
165	SHOPPING CENTRE
166	SPORTSPLEX
167	STEEL MILL
168	TRADING POST
169	UNIVERSITY
170	WARDEN/RANGER STATION
171	WATER TREATMENT PLANT
172	WEIGH SCALE (HIGHWAY)
172	WEIGHT SCALE
174	GREENHOUSE
175	PENAL BUILDING
176	LODGING FACILITIES
177	INDUSTRIAL BUILDING
178	RELIGIOUS BUILDING
179	EDUCATIONAL BUILDING
585	FORT: GENERIC/UNKNOWN
585	FORT
618	GREENHOUSE
1220	STADIUM
1220	STADIUM: GENERIC/UNKNOWN

Building Points (bp)



Location

\TOPO\ directory

Structure

Field Name	Field Type	Field Size	Description
Code	Decimal	11,0	Classification Code
Feature	Character	76	Feature Type
Category	Character	40	Category of Feature

Contents

Code	Feature
109	BARN/MACHINERY SHED
110	DOME
110	CABIN
123	ELECTRIC POWER STATION
125	FILTRATION PLANT
128	FISH HATCHERY
129	FISH PROCESSING PLANT
130	GRAIN ELEVATOR
136	KILN (TOBACCO)
137	LUMBER MILL
146	OIL/GAS FACILITIES BUILDING
148	WARDEN/RANGER STATION
148	OUTBUILDING (NTDB before v 2.4)
151	PETROLEUM REFINERY
154	PULP/PAPER MILL
159	SAWMILL
163	SEWAGE TREATMENT PLANT
167	WATER TREATMENT PLANT
167	STEEL MILL
174	GREENHOUSE
618	GREENHOUSE
1119	SHRINE: GENERIC/UNKNOWN
1119	SHRINE

Bus Transit – Lines (btl)[1]

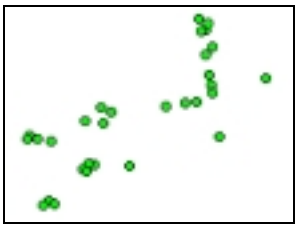
Location

\TOPO\ directory

Structure

Field Name	Field Type	Field Size	Description
Route	Character	100	Route Name
System	Character	100	Transit System Name
Type	Character	20	Type (Mode) of Transit

Bus Transit - Points (btp) [1]



Location

\TOPO\ directory

Structure

Field Name	Field Type	Field Size	Description
Stop	Character	100	Stop Name
Route	Character	100	Route Name
System	Character	100	Transit System Name
Type	Character	20	Type (Mode) of Transit

[1] Data currently available in selected Major Urban Centers across Canada only.

Car Pool Parking Lots (cpl)

Location

\POI\ directory

Structure

Field Name	Field Type	Field Size	Description
Name	Character	50	Name of Car Pool
Location	Character	100	Location of Car Pool
City	Character	45	City (or closest municipality)
Prov	Character	2	Province
Exit_Num	Character	5	Hwy Exit Number at Location of Car Pool Lot
Direction	Character	5	Direction of Hwy where Car Pool Lot is
Type	Character	10	Type
Category	Character	40	Category
Fcode	Decimal	11,0	Feature Code
Scode	Decimal	11,0	Symbol Code
Prec_code	Character	2	Representative point flag, this identifies the method used to geographically position the coordinate

Contents

Type

Value	Description
CPL	Car Pool Lot

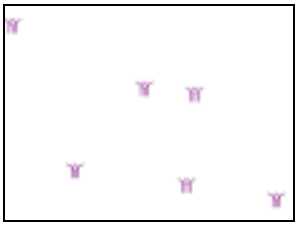
Feature Codes

Car Pool Parking Lot Type	FCode
Car Pool Lot	710

Prec_Code

Value	Description
1	Centroid of 1:50 000 NTDB feature
2	Block-face representative point from CanMap streets – High precision
3	Block-face representative point from CanMap streets – Lower precision
4	Postal Code – Block-face representative point
5	Postal Code – EA Centroid
6	Municipal Centroid
7	Canadian Geographical Names Database (CGNDB) - Nat Can

Cultural (cul)



Location

\POI\ directory

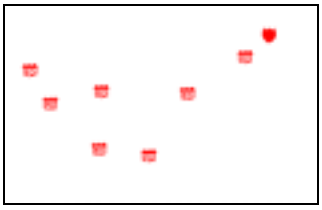
Structure

Field Name	Field Type	Field Size	Description
Site_Type	Character	76	Feature description
Category	Character	40	Points of Interest Category
Address	Character	40	Address
City	Character	68	Municipality
Prov	Character	2	Province abbreviation
Fcode	Decimal	11,0	Feature code
Scode	Decimal	11,0	Symbol code

Contents

FCode	Point of Interest
117	HISTORIC SITE/POINT OF INTEREST: GENERIC/UNKNOWN
113	CULTURAL
128	PLANETARIUM
132	SCIENCE CENTRE

Emergency (emg)



Location

\POI\ directory

Structure

Field Name	Field Type	Field Size	Description
Site_Type	Character	76	Feature description
Category	Character	40	Points of Interest Category
Address	Character	40	Address
City	Character	68	Municipality
Prov	Character	2	Province abbreviation
Fcode	Decimal	11,0	Feature code
Scode	Decimal	11,0	Symbol code

Contents

FCode	Point of Interest
201	FIRE STATION
202	POLICE STATION
203	FIRE/POLICE STATION

Expressway Casements (exc)

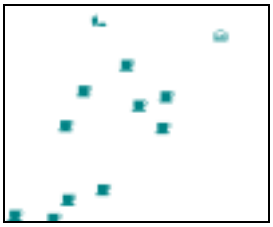
Location

\STREETS\ directory

Structure

Field Name	Field Type	Field Size	Description
Street	Character	64	Street Name
Rds_ Id	Decimal	9,0	UniqueID of related RDS segment

Food and Lodgings (fol)



Location

\POI\ directory

Structure

Field Name	Field Type	Field Size	Description
Site_Type	Character	76	Feature description
Category	Character	40	Points of Interest Category
Address	Character	40	Address
City	Character	68	Municipality
Prov	Character	2	Province abbreviation
Fcode	Decimal	11,0	Feature code
Scode	Decimal	11,0	Symbol code

Contents

FCode	Point of Interest
301	MOTEL
302	RESTAURANT - FAST FOOD
303	RESTAURANT - CONVENTIONAL
304	HOTEL
305	SEASONAL MOTEL
306	LODGING FACILITIES
307	HOSTEL

Government and Institutional (gov)

Location

\POI\ directory

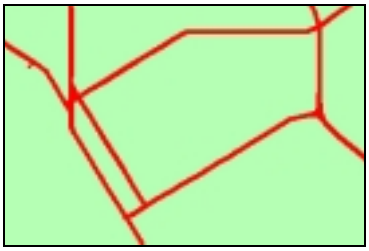
Structure

Field Name	Field Type	Field Size	Description
Site_Type	Character	76	Feature description
Category	Character	40	Points of Interest Category
Address	Character	40	Address
City	Character	68	Municipality
Prov	Character	2	Province abbreviation
Fcode	Decimal	11,0	Feature code
Scode	Decimal	11,0	Symbol code

Contents

FCode	Point of Interest
801	ARMOURY
802	ASSEMBLY / COMMUNITY HALL
803	PENAL BUILDING
804	RELIGIOUS BUILDING
805	CEMETERY
806	CHURCH
807	CITY HALL
808	CONVENT
809	CORRECTIONAL INSTITUTE
810	COURTHOUSE
811	CUSTOMS POST
812	HALL
813	LIBRARY / LITERARY INSTITUTION
814	MILITARY ESTABLISHMENT
815	MONASTERY
816	MUNICIPAL HALL
817	NON-CHRISTIAN PLACE OF WORSHIP
818	OBSERVATORY
819	PARLIAMENT BUILDING
820	PENITENTIARY
821	POST OFFICE
822	REFORMATORY
823	SANATORIUM
824	SEMINARY

Principal Highway Casements (hpc)



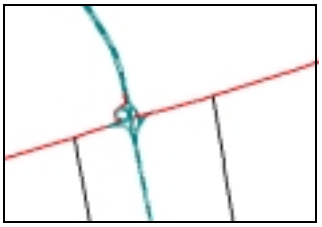
Location

\STREETS\ directory

Structure

Field Name	Field Type	Field Size	Description
Street	Character	64	Street Name
Rds_ Id	Decimal	9,0	UniqueID of related RDS segment

Major Roads & Highways (hrd)



Location

\STREETS\ directory

Structure

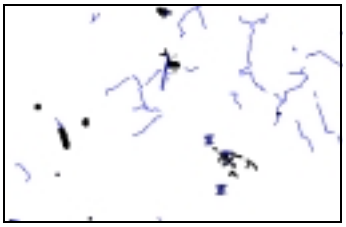
Field Name	Field Type	Field Size	Description
Street	Character	64	Street Name
Carto[1]	Decimal	3,0	Road Classification
Left_MUN	Character	68	Municipality Name
Right_MUN	Character	68	Municipality Name
Left_Fsa	Character	3	FSA Name
Right_Fsa	Character	3	FSA Name
Left_Prv	Character	2	Province Abbreviation
Right_Prv	Character	2	Province Abbreviation
Uniqueid	Decimal	9,0	Street segment Unique Identifier

Contents

Please refer to the section *CanMap® Street Directions* for street directionality and abbreviations, as well as the section *CanMap® Street Types and Abbreviations* for street field types and abbreviations.

[1] For Carto road classification values, please refer to the section *Road Classification*

Hydrographic Structures (hs)



Location

\TOPO\ directory

Structure

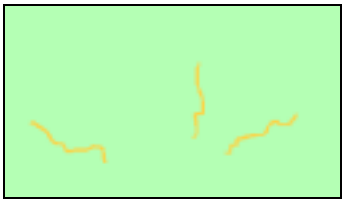
Field Name	Field Type	Field Size	Description
Code	Decimal	11,0	Classification Code
Feature	Character	76	Feature Type

Contents

Code	Feature
58	BOAT RAMP
58	BOAT RAMP: GENERIC/UNKNOWN
80	BREAKWALL/BREAKWATER
80	BREAKWATER: UNKNOWN
275	CONDUIT: ABOVEGROUND, PENSTOCK
275	CONDUIT: GROUND LEVEL, PENSTOCK
276	CONDUIT: UNDERGROUND, PENSTOCK
277	CONDUIT: ABOVEGROUND, OTHER
277	CONDUIT: GROUND LEVEL, OTHER
278	CONDUIT: UNDERGROUND, OTHER
289	CONDUIT BRIDGE: GENERIC/UNKNOWN
359	DAM
360	DAM: OTHER
361	DAM: SLUICE GATE
405	DRYDOCK
429	DYKE/LEVEE
429	DYKE/LEVEE: UNKNOWN
475	EXPOSED SHIPWRECK
486	FALLS
519	FISH LADDER
519	FISH LADDER: GENERIC/UNKNOWN
530	FISH POUND
530	FISH POUND: GENERIC/UNKNOWN
541	FLOODED AREA
651	IRRIGATION CANAL/DITCH
662	KELP: GENERIC/UNKNOWN
673	LOCK GATE: GENERIC/UNKNOWN
673	LOCK GATE
743	NAVIGABLE CANAL: ABANDONED
744	NAVIGABLE CANAL: OPERATIONAL
755	NAVIGATION BEACON

766	NAVIGATION LIGHT
766	NAVIGATIONAL AID: NAVIGATION LIGHT
767	NAVIGATIONAL AID: NAVIGATION BEACON
777	OBSTACLE IN WATER
847	PERMANENT SNOW AND ICE: OTHER
909	POND PARTITION: GENERIC/UNKNOWN
910	POND PARTITION: FISH POUND
911	POND PARTITION: RESERVOIR
912	POND PARTITION: WASTE
967	RAPIDS
979	RESERVOIR: OPEN, DRINKING WATER RESERVOIR
980	RESERVOIR: UNDERGROUND, DRINKING WATER RESERVOIR
981	RESERVOIR: OPEN,DUGOUT
982	RESERVOIR: OPEN,FILTRATION POND
1033	ROCK IN WATER
1044	ROCKY LEDGE/REEF
1044	ROCKY LEDGE/REEF: GENERIC/UNKNOWN
1108	SEAWALL
1108	SEAWALL: GENERIC/UNKNOWN
1163	SLIP
1174	SLUICE GATE
1209	SPRING
1209	SPRING: GENERIC/UNKNOWN
1453	WATER BODY: IRRIGATION CANAL
1503	WHARF
1503	WHARF: UNKNOWN
1514	WIND-OPERATED DEVICE: GENERIC/UNKNOWN
1666	LIQUIDS DEPOT/DUMPS: LIQUID WASTE, SEWAGE POND
1667	LIQUIDS DEPOT/DUMP: LIQUID WASTE, SETTLING POND
1668	LIQUIDS DEPOT/DUMP: LIQUID WASTE, UNKNOWN
1669	LIQUIDS DEPOT/DUMP: WATER, OTHER
1670	LIQUIDS DEPOT/DUMP: WATER, FILTRATION POND
1671	LIQUID DEPOT/DUMP: WATER, DRINKING WATER
1681	HAZARD TO NAVIGATION: ROCK IN WATER
1682	HAZARD TO NAVIGATION: EXPOSED SHIPWRECK
1683	HAZARD TO NAVIGATION: OBSTACLE IN WATER
1701	WATER DISTURBANCE: FALLS
1702	WATER DISTURBANCE: RAPID
1710	UNDERGROUND RESERVOIR: GENERIC/UNKNOWN

Secondary Highway Casements (hsc)



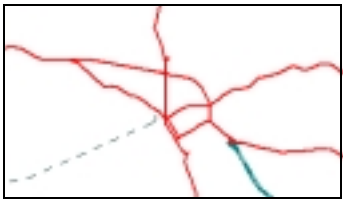
Location

\STREETS\ directory

Structure

Field Name	Field Type	Field Size	Description
Street	Character	64	Street Name
Rds_ Id	Decimal	9,0	UniqueID of related RDS segment

Highways (hwy)



Location

\STREETS\ directory

Structure

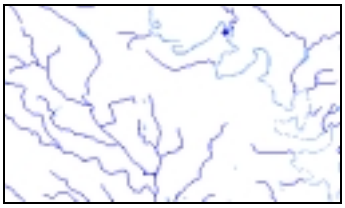
Field Name	Field Type	Field Size	Description
Street	Character	64	Street Name
Carto[1]	Decimal	3,0	Road Classification
Left_MUN	Character	68	Municipality Name
Right_MUN	Character	68	Municipality Name
Left_Fsa	Character	3	FSA Name
Right_Fsa	Character	3	FSA Name
Left_Prv	Character	2	Province Abbreviation
Right_Prv	Character	2	Province Abbreviation
Uniqueid	Decimal	9,0	Street segment Unique Identifier

Contents

Please refer to the section *CanMap® Street Directions* for street directionality and abbreviations, as well as the section *CanMap® Street Types and Abbreviations* for street field types and abbreviations.

[1] For Carto road classification values, please refer to the section *Road Classification*

Hydrography (hy)



Location

\TOPO\ directory

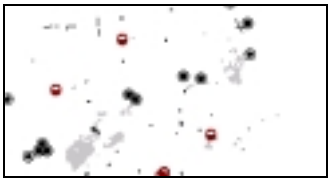
Structure

Field Name	Field Type	Field Size	Description
Code	Decimal	11,0	Classification Code
Feature	Character	76	Feature Type

Contents

Code	Feature
371	DISAPPEARING STREAM: OTHER
372	DISAPPEARING STREAM: SINKHOLE
1450	WATERBODY: INTERMITTENT/SLOUGH
1451	WATERBODY: IN STRING BOG
1452	WATERBODY: OTHER
1454	WATERBODY: FLOODED AREA
1463	WATERCOURSE: UNKNOWN

Industrial and Resources (ir)



Location

\TOPO\ directory

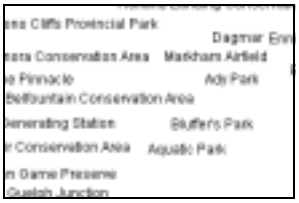
Structure

Field Name	Field Type	Field Size	Description
Code	Decimal	11,0	Classification Code
Feature	Character	76	Feature Type

Contents

Code	Feature
34	AUTO WRECKER: GENERIC/UNKNOWN
34	AUTO WRECKER
347	CUT LINE: FIREBREAK
348	CUT LINE: OTHER
417	DUMP: ABANDONED
418	DUMP: OTHER
695	LUMBER YARD
695	LUMBER YARD: GENERIC/UNKNOWN
707	MINE: ABANDONED,N/A
708	MINE: OPERATIONAL,OPEN-PIT
709	MINE: OPERATIONAL,OTHER
788	OIL/GAS FACILITIES
788	GAS AND OIL FACILITIES: GENERIC/UNKNOWN
793	OIL OR GAS FIELD: GENERIC/UNKNOWN
898	PIT
923	QUARRY
1231	STOCKPILE
1242	STOCKYARD
1242	STOCKYARD: GENERIC/UNKNOWN
1435	WASTE: OTHER, LIQUID
1436	WASTE: SETTLING POND,LIQUID
1437	WASTE: SEWAGE DISPOSAL POND,LIQUID
1438	WASTE: OTHER,SOLID
1656	SOLIDS DEPOT/DUMP: DOMESTIC, WASTE, ABANDONED
1657	SOLIDS DEPOT/DUMP: DOMESTIC, WASTE, OPERATIONAL
1658	SOLIDS DEPOT/DUMP: INDUSTRIAL, WASTE, UNKNOWN
1659	SOLIDS DEPOT/DUMP: INDUSTRIAL, STOCKPILE, UNKNOWN
1690	MINING AREA: UNKNOWN, UNKNOWN, UNKNOWN
1691	MINING AREA: PIT, OPEN PIT, OPERATIONAL
1692	MINING AREA: QUARRY, OPEN PIT, OPERATIONAL
1693	MINING AREA: MINE, OPEN, PIT, OPERATIONAL
1694	MINING AREA: MINE, UNKNOWN, ABANDONED
1697	MINING AREA: MINE, UNDERGROUND, OPERATIONAL

Land Feature Labels (ll)



Location

\TOPO\ directory

Structure

Field Name	Field Type	Field Size	Description
Name	Character	100	Feature Name
Code	Decimal	11,0	Classification Code
Feature	Character	76	Feature Type
Eng_Fr_Dup	Character	3	Coincident Labels in English/French

Contents

Code	Feature
1851	TOPONYM: PLACE
1854	TOPONYM: RELIEF
1855	TOPONYM: TRANSPORT

Canada\USA Roads Linkage Points (lnk)

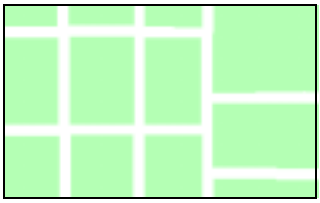
Location

\STREETS\ directory

Structure

Field Name	Field Type	Field Size	Description
RDS_ID	Decimal	9,0	UniqueID of RDS segment to which Roads Linkage point belongs
CAN_Street	Character	64	Canadian Street at Roads Linkage point
Prov	Character	2	Province
USA_Street	Character	64	American Street at Roads Linkage point
State	Character	2	State
Port_Entry	Character	100	Port of Entry Name (if applicable)
Longitude	Decimal	11,6	Longitude of Roads Linkage point
Latitude	Decimal	11,6	Latitude of Roads Linkage point

Local Road Casements (lrc)



Location

\STREETS\ directory

Structure

Field Name	Field Type	Field Size	Description
Street	Character	64	Street Name
Rds_ Id	Decimal	9,0	UniqueID of related RDS segment

Look Up Table (rds_lut)

Location

\STREETS\ folder

Structure

Field Name	Field Type	Field Size	Description
Rds_ID	Decimal	9,0	UniqueID of related RDS segment
Alias_Name	Character	64	Alternate Street Name
FormerName	Character	64	Former Provincial Hwy Name
Hwy_Num	Character	20	Highway Number(s)
Hwy_NumNam	Character	64	Road Numeric Name (e.g. Regional Rd 4)
Hwy_Name	Character	64	Highway Name Non-Numeric (e.g. Don Valley Pky)
Rd_Num	Logical	20	Road Number (e.g. 4)
Rd_NumNam	Logical	64	Road Numeric Name (e.g. Regional Rd 4)
Rd_Name	Logical	64	Road Name Non-Numeric (e.g. Taunton Rd W)
AlaskaHwy	Logical	-	Alaskan Highway flag
CaribooHwy	Logical	-	Cariboo Highway flag
CrwsnstHwy	Logical	-	Crowsnest Highway flag
DempstrHwy	Logical	-	Dempster Highway flag
JohnHrtHwy	Logical	-	John Hart Highway flag
KlondkeHwy	Logical	-	Klondike Highway flag
McknzieHwy	Logical	-	Mackenzie Highway flag
TrnsCdaHwy	Logical	-	TransCanada Highway Flag
YelowHdHwy	Logical	-	Yellow Head Highway Flag
Toll_Rd	Logical	-	Toll Road Flag

Land Use (lu)

Location

\TOPO\ directory

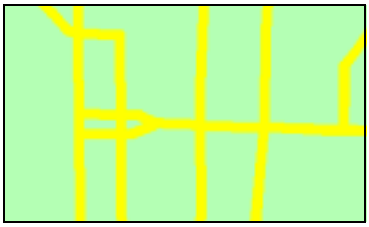
Structure

Field Name	Field Type	Field Size	Description
Category	Character	40	Type of Landuse

Contents

Categories include: Commercial, Government and Institutional, Open Area, Parks and Recreational, Residential, Resource and Industrial, and Waterbody.

Major Road Casements (mrc)



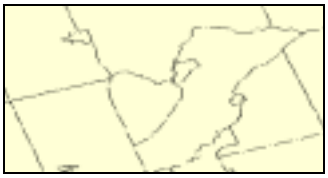
Location

\STREETS\ directory

Structure

Field Name	Field Type	Field Size	Description
Street	Character	64	Street Name
Rds_ Id	Decimal	9,0	UniqueID of related RDS segment

Municipality (mun)



Location

\STREETS\ directory

Structure

Field Name	Field Type	Field Size	Description
Name	Character	68	Municipal Name
Prov	Character	2	Province Abbreviation
Type	Character	3	Municipal Type
Pop96	Decimal	11,0	1996 Population
Pop_SqKm[1]	Decimal	11,1	Population Density (per square kilometer)
Dwell96	Decimal	11,0	1996 Dwelling Counts
Shore_Area	Decimal	20,5	Actual land area in sq km (not including any part of the Municipality covered by water). This field can be used during land area analysis[2]

Contents

Type of community in the Municipality file

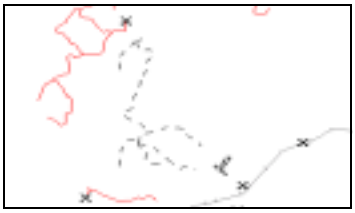
Type	Description
B	Borough
C	City
CC	Chartered Community
CM	County
COM	Community
CT	Canton
CU	Cantons Unis
DM	District Municipality
HAM	Hamlet
ID	Improvement District
IGD	Indian Government District
LGD	Local Government District
LOT	Township and Royalty
M	Municipality
MD	Municipality District
NH	Northern Hamlet
NT	Northern Town
NV	Northern Village
P	Paroisse
PAR	Parish
R	Indian Reserve

Type	Description
RC	Rural Community
RGM	Regional Municipality
RM	Rural Municipality
RV	Resort Village
S-E	Indian Settlement
SA	Special Area
SCM	Subdivision of County Municipality
SET	Settlement
SM	Specialized Municipality
SRD	Subdivision of Regional District
SUN	Subdivision of Unorganized
SV	Summer Village
T	Town
TI	Terre Inuite
TP	Township
TR	Terres Réservées
UNO	Unorganized
V	Ville
VC	Village Cri
VK	Village Naskapi
VL	Village
VN	Village Nordique

[1] Calculation based on the 1996 population and land area in square kilometres

[2] All Area fields were calculated within a Robinson projection

Other Transportation (ot)



Location

\TOPO\ directory

Structure

Field Name	Field Type	Field Size	Description
Code	Decimal	11,0	Classification Code
Feature	Character	76	Feature Type

Contents

Code	Feature
46	BARRIER/GATE: OTHER
47	BARRIER/GATE: TOLLGATE
335	CUT: GENERIC/UNKNOWN
335	CUT
508	FERRY ROUTE
935	RAILWAY: N/A,N/A,ABANDONED,N/A
935	RAILWAY: UNKNOWN, UNKNOWN, ABANDONED, UNKNOWN
936	RAILWAY: NARROW GAUGE,N/A,OPERATIONAL,N/A
936	RAILWAY: NARROW GAUGE, UNKNOWN, OPERATIONAL ,UNKNOWN
937	RAILWAY: NARROW GAUGE,N/A,OPERATIONAL,SIDE TRACK
937	RAILWAY: NARROW GAUGE, UNKNOWN, OPERATIONAL, SIDE TRACK
941	RAILWAY: SPECIAL,ELEVATED,OPERATIONAL,SINGLE
945	RAILWAY: SPECIAL,OTHER,OPERATIONAL,SINGLE
947	RAILWAY: STANDARD GAUGE,DEPRESSED,OPERATIONAL,SIDE TRACK
953	RAILWAY: STANDARD GAUGE, UNKNOWN, UNDER CONSTRUCTION, SINGLE TRACK
954	RAILWAY: STANDARD GAUGE,OTHER,OPERATIONAL,MULTIPLE
954	RAILWAY: STANDARD GAUGE, GROUNDLEVEL, OPERATIONAL , MULTIPLE TRACK
955	RAILWAY: STANDARD GAUGE,OTHER,OPERATIONAL,SIDE TRACK
955	RAILWAY: STANDARD GAUGE, GROUNDLEVEL, OPERATIONAL ,SIDE TRACK
956	RAILWAY: STANDARD GAUGE,OTHER,OPERATIONAL,SINGLE
956	RAILWAY: STANDARD GAUGE,GROUNDLEVEL, OPERATIONAL ,SINGLE TRACK
957	RAILWAY: STANDARD GAUGE, OTHER, OPERATIONAL, MULTIPLE TRACKS
958	Railway: Standard, Other, Operational, Single track
958	RAILWAY: STANDARD GAUGE, OTHER, OPERATIONAL, SINGLE TRACK
959	RAILWAY: STANDARD GAUGE, OTHER, OPERATIONAL, SIDE TRACK
1004	ROAD: N/A,CART TRACK,N/A,OTHER,OPER.,LOOSE
1306	TRAIL: OTHER
1307	TRAIL: PORTAGE
1387	TURNTABLE: GENERIC/UNKNOWN
1387	TURNTABLE (RAILWAY)
1600	ROAD: RAPID TRANSIT, GROUND LEVEL, HARD SURFACE, OPERATIONAL
1601	ROAD: RAPID TRANSIT, OTHER, HARD SURFACE, OPERATIONAL

Physiography (ph)

Location

\TOPO\ directory

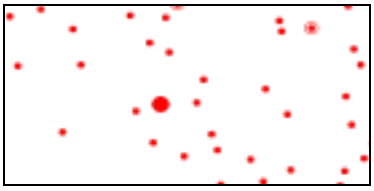
Structure

Field Name	Field Type	Field Size	Description
Code	Decimal	11,0	Classification Code
Feature	Character	76	Feature Type

Contents

Code	Feature
239	CAVE ENTRANCE
239	CAVE ENTRANCE: GENERIC/UNKNOWN
394	DRY RIVER BED
394	DRY RIVER BED: GENERIC/UNKNOWN
451	ESKER
451	ESKER: GENERIC/UNKNOWN
574	FORESHORE FLATS
731	MORAINE: GENERIC/UNKNOWN
1083	SAND: OTHER
1084	SAND: UNDERWATER

Populated Placenames (ppn)



Location

\POI\ directory

Structure

Field Name	Field Type	Field Size	Field Description
Name	Character	68	Name of the feature or place
Prov	Character	2	Identifies the province or territory of Canada where the feature/place is found.
PPN_Code	Decimal	3,0	Populated Placename Code which identifies type of feature or place.
Longitude	Decimal	11,6	Longitude
Latitude	Decimal	11,6	Latitude
Prec_Code	Decimal	2,0	Code which identifies the method used to geographically position the coordinate
Mjr_City	Logical	-	Flag which identifies cities that have a population > 100,000
Captial	Logical	-	Identifies Capital Cities across Canada
PRCDCSD	Character	8	Code which identifies Municipality within which the point falls
CSD_Name	Character	68	Municipal Name within which the point falls
CSD_Pop96	Decimal	11,0	Represents the 1996 Population for the Municipality within which the ppn point falls

Contents

PPN_Code	Populated Placename
100	Major City
1	City
2	Town
3	Community (rural communities, hamlets, settlements)
4	Urban or Suburban Community

Precision Code	Description
1	Centroid of 1:50,000 NTDB feature
2	Block-face representative point from CanMap streets – High precision
3	Block-face representative point from CanMap streets – Lower precision
4	Postal Code-Block-face representative point
5	Postal Code-EA centroid
6	Municipal Centroid
7	Canadian Geographical Names Database (CGNDB)[1]

[1] May have been enhanced by DMTI Spatial by removing points from water bodies.

Provincial Outline (prv)

Location

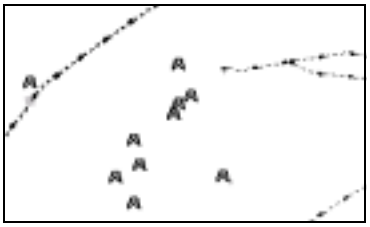
\CANADA\ directory

Structure

Field Name	Field Type	Field Size	Description
Name	Character	68	Name of Province
Prov	Character	2	Province Abbreviation
Pop96	Decimal	11,0	1996 Population
Pop_SqKm[1]	Decimal	11,1	Population Density (per square kilometer)
Dwell96	Decimal	11,0	1996 Dwelling Counts
Shore_Area	Decimal	20,5	Actual land area in sq km (not including any part of the Province covered by water). This field can be used during land area analysis[1]

[1] Based on the 1996 population and land area in square kilometers

Pipes and Transmission Lines (pt)



Location

\TOPO\ directory

Structure

Field Name	Field Type	Field Size	Description
Code	Decimal	11,0	Classification Code
Feature	Character	76	Feature Type

Contents

Code	Feature
881	PIPELINE: NATURAL GAS, ABOVEGROUND
881	PIPELINE: NATURAL GAS ,ABOVEGROUND
882	PIPELINE: NATURAL GAS,UNDERGROUND
882	PIPELINE: NATURAL GAS, UNDERGROUND
883	PIPELINE: OIL,ABOVEGROUND
883	PIPELINE: OIL ABOVEGROUND
884	PIPELINE: OIL UNDERGROUND
884	PIPELINE: OIL,UNDERGROUND
885	PIPELINE: SEWAGE/WASTE, ABOVEGROUND
885	PIPELINE: SEWAGE/WASTE,ABOVEGROUND
886	PIPELINE: UNKNOWN,ABOVEGROUND
886	PIPELINE: UNKNOWN, ABOVEGROUND
887	PIPELINE: UNKNOWN,UNDERGROUND
887	PIPELINE: UNKNOWN, UNDERGROUND
890	PIPELINE: MULTIUSE, ABOVEGROUND
891	PIPELINE: MULTIUSE, UNDERGROUND
1318	TRANSFORMER STATION (ELECTRIC)
1318	TRANSFORMER STATION: GENERIC/UNKNOWN
1330	TRANSMISSION LINE: POWER,OTHER
1330	TRANSMISSION LINE: POWER, OTHER
1331	TRANSMISSION LINE: POWER, SUBMARINE
1331	TRANSMISSION LINE: POWER,SUBMARINE
1332	TRANSMISSION LINE: TELEPHONE,OTHER
1332	TRANSMISSION LINE: TELEPHONE, OTHER
1398	VALVE: GENERIC/UNKNOWN
1398	VALVE

Recreation and Amusement (point features and line features) (ra)

Location

\TOPO\ directory

Structure

Field Name	Field Type	Field Size	Description
Code	Decimal	11,0	Classification Code
Feature	Character	76	Feature Type

Contents

Code	Feature
607	GOLF DRIVING RANGE
1198	SPORTS/RACE TRACK: OTHER
1198	SPORTS TRACK/RACE TRACK: OTHER

Roads (rds)

Location

\STREETS\ directory

Structure

Field Name	Field Type	Field Size	Description
Street	Character	64	Street Name
FromLeft	Decimal	6,0	From Left Address
ToLeft	Decimal	6,0	To Left Address
FromRight	Decimal	6,0	From Right Address
ToRight	Decimal	6,0	To Right Address
PreDir	Character	2	Street Direction before Streetname (ex. W 5 St)
PreType	Character	10	Street Type before Streetname (ex. Rue Jean)
Streetname	Character	40	Streetname (ex. John St E)
Suftype	Character	10	Street Type after Streetname (ex. John St E)
SufDir	Character	2	Street Direction after Streetname (ex. John St E)
Carto[1]	Decimal	3,0	Road Classification
Left_MUN	Character	68	Municipality Name
Right_MUN	Character	68	Municipality Name
Left_Fsa	Character	3	FSA Name
Right_Fsa	Character	3	FSA Name
Left_Prv	Character	2	Province Abbreviation
Right_Prv	Character	2	Province Abbreviation
Uniqueid	Decimal	9,0	Street Segment Unique Identification Number

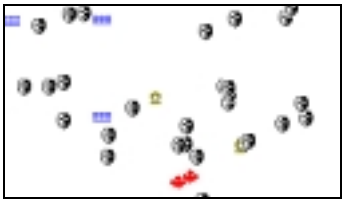
Note: Address fields will contain only zeros in Unaddressed CanMap® Streetfiles V5.0

Contents

Please refer to the section *CanMap® Street Directions* for street directionality and abbreviations, as well as the section *CanMap® Street Types and Abbreviations* for street field types and abbreviations.

[1] For Carto road classification values, please refer to the section *Road Classification*

Recreation and Entertainment (rec)



Location

\POI\ directory

Structure

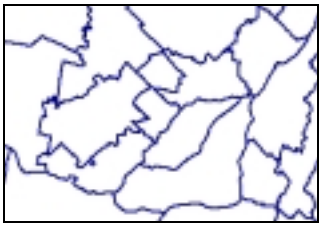
Field Name	Field Type	Field Size	Description
Site_Type	Character	76	Feature description
Category	Character	40	Points of Interest Category
Address	Character	40	Address
City	Character	68	Municipality
Prov	Character	2	Province abbreviation
Fcode	Decimal	11,0	Feature code
Scode	Decimal	11,0	Symbol code

Contents

FCode	Point of Interest
101	ADVENTURE
102	AMUSEMENT PARK
103	AQUARIUM
104	AQUATIC CENTRE
105	ARENA
106	ATTRACTION
107	BOWLING ALLEY
108	CAMP
109	CAMPGROUND
110	CASINO
111	COMMUNITY CENTRE
112	CONCERT HALL
114	DRIVE-IN THEATRE
115	EXHIBITION GROUNDS / FAIRGROUND
116	GARDEN
118	HORSEBACK RIDING
119	INDOOR AMUSEMENT PARK
120	LOOKOUT
121	MARINA/YACHT CLUB: MARINA
123	MUSEUM
124	NATURAL ATTRACTION
125	OUTDOOR ADVENTURES
126	PARK
127	PICNIC SITE
129	RACE TRACK

130	RACING
131	RIVER TOUR
133	SKI AREA
134	SKI JUMP
135	SPORTSPLEX
136	SWIMMING POOL
137	SWIMMING POOL (OUTDOOR)
138	THEATRE / CINEMA
139	WATER ADVENTURE
140	WATER PARK
141	MARINA/YACHT CLUB: YACHT CLUB
142	ZOO

Regional Municipality (rmn)



Location

\CANADA\ directory

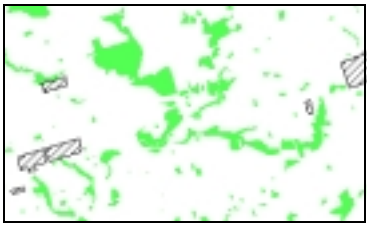
Structure

Field Name	Field Type	Field Size	Description
Name	Character	68	Regional Municipal Name
Prov	Character	2	Province Abbreviation
Pop96	Decimal	11,0	1996 Population
Pop_SqKm[1]	Decimal	11,1	Population Density (per square kilometer)
Dwell96	Decimal	11,0	1996 Dwelling Counts
Shore_Area	Decimal	20,5	Actual land area in sq km (not including any part of the Regional Municipality covered by water). This field can be used during land area analysis[2]

[1] Based on the 1996 population and land area in square kilometers

[2] All Area fields were calculated within a Robinson projection

Recreation and Amusement (region features) (rp)



Location

\TOPO\ directory

Structure

Field Name	Field Type	Field Size	Description
Code	Decimal	11,0	Classification Code
Feature	Character	76	Feature Type

Contents

Code	Feature
23	AMUSEMENT PARK: GENERIC/UNKNOWN
23	AMUSEMENT PARK
69	BOTANICAL GARDEN: GENERIC/UNKNOWN
69	BOTANICAL GARDEN
217	CAMPGROUND
217	CAMPGROUND: GENERIC/UNKNOWN
250	CEMETERY: GENERIC/UNKNOWN
250	CEMETERY
383	DRIVE-IN THEATRE: GENERIC/UNKNOWN
383	DRIVE-IN THEATRE
463	EXHIBITION GROUND: OTHER
463	EXHIBITION GROUND/FAIRGROUND: EXHIBITION GROUND
464	EXHIBITION GROUND/FAIRGROUND: FAIRGROUND
464	EXHIBITION GROUND: FAIRGROUND
596	GOLF COURSE: GENERIC/UNKNOWN
596	GOLF COURSE
607	GOLF DRIVING RANGE: GENERIC/UNKNOWN
607	GOLF DRIVING RANGE
684	LOOKOUT: GENERIC/UNKNOWN
684	LOOKOUT
823	PARK/SPORTS FIELD: GENERIC/UNKNOWN
823	PARK/SPORTS FIELD
858	PICNIC SITE
858	PICNIC SITE: GENERIC/UNKNOWN
1197	SPORTS TRACK/RACE TRACK: DRAG STRIP
1197	SPORTS/RACE TRACK: DRAG STRIP
1264	SWIMMING POOL (OUTDOOR)
1525	ZOO: GENERIC/UNKNOWN
1672	LIQUIDS DEPOT/DUMP: WATER, SWIMMING POOL

Rail Transit – Lines (rtl)[1]

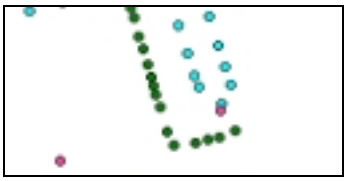
Location

\TOPO\ directory

Structure

Field Name	Field Type	Field Size	Description
Route	Character	100	Route Name
System	Character	100	Transit System Name
Type	Character	20	Type (Mode) of Transit

Rail Transit - Points (rtp) [1]



Location

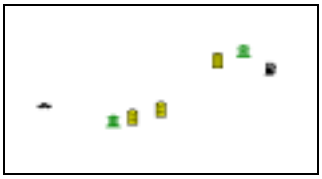
\TOPO\ directory

Structure

Field Name	Field Type	Field Size	Description
Stop	Character	100	Stop Name
Route	Character	100	Route Name
System	Character	100	Transit System Name
Type	Character	20	Type (Mode) of Transit

[1] Data currently available in selected Major Urban Centers across Canada only.

Shopping and Services (srv)



Location

\POI\ directory

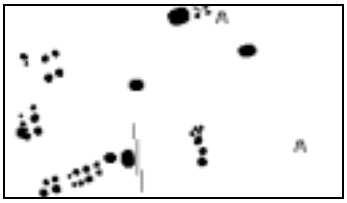
Structure

Field Name	Field Type	Field Size	Description
Site_Type	Character	76	Feature description
Category	Character	40	Points of Interest Category
Address	Character	40	Address
City	Character	68	Municipality
Prov	Character	2	Province abbreviation
Fcode	Decimal	11,0	Feature code
Scode	Decimal	11,0	Symbol code

Contents

FCode	Point of Interest
601	AUTO DEALERSHIP
602	COMMUNITY SHOPPING CENTRE
603	DEPARTMENT / DISCOUNT STORE
604	FINANCIAL INSTITUTION
605	GAS STATION
606	HIGHWAY SERVICE CENTRE
607	NEIGHBOURHOOD SHOPPING CENTRE
608	PARKING GARAGE
609	PARKING LOT
610	REGIONAL SHOPPING CENTRE
611	SHOPPING CENTRE
612	SPECIALITY AUTOMOTIVE SHOP
613	MARKET

Transportation Related Areas (ta)



Location

\TOPO\ directory

Structure

Field Name	Field Type	Field Size	Description
Code	Decimal	11,0	Classification Code
Feature	Character	76	Feature Type
Name	Character	100	Airport\Airfield\Heliport Name
Locat_Ind	Character	4	Airport\Airfield\Heliport Location Indicator

Contents

Code	Feature
11	AERIAL CABLEWAY: OTHER
12	AERIAL CABLEWAY: SKI LIFT
28	CAUSEWAY
195	BURNER
228	CAUSEWAY
262	CHIMNEY: FLARE STACK
263	CHIMNEY: INDUSTRIAL
264	CHIMNEY: BURNER
300	CONVEYOR
300	CONVEYOR: GENERIC/UNKNOWN
312	CRANE: MOVEABLE
313	CRANE: STATIONARY
324	CROSS: GENERIC/UNKNOWN
324	CROSS
440	EMBANKMENT
441	EMBANKMENT: OTHER
442	EMBANKMENT: CAUSEWAY
497	FENCE
552	FOOTBRIDGE
552	FOOTBRIDGE: GENERIC/UNKNOWN
563	FORD
629	HELIPORT
720	MOBILE HOME PARK
811	PARABOLIC ANTENNA: RADAR
812	PARABOLIC ANTENNA: RADIO TELESCOPE
1055	RUINS
1055	RUINS: GENERIC/UNKNOWN
1067	RUNWAY: AIRFIELD,CONDITION UNKNOWN,N/A
1067	RUNWAY: AIRFIELD, UNKNOWN, UNKNOWN

1068	RUNWAY: AIRFIELD,OPERATIONAL,HARD SURFACE
1068	RUNWAY: AIRFIELD, OPERATIONAL, HARD SURFACE
1069	RUNWAY: AIRFIELD,OPERATIONAL,LOOSE SURFACE
1069	RUNWAY: AIRFIELD, OPERATIONAL, LOOSE SURFACE
1070	RUNWAY: AIRPORT, OPERATIONAL, HARD, SURFACE
1070	RUNWAY: AIRPORT,OPERATIONAL,HARD SURFACE
1071	RUNWAY: UNKNOWN, ABANDONED, UNKNOWN
1071	RUNWAY: N/A,ABANDONED,N/A
1072	RUNWAY: AIRPORT, OPERATIONAL, LOOSE SURFACE
1073	RUNWAY: HELIPORT, OPERATIONAL, UNKNOWN
1130	SILO
1130	SILO: GENERIC/UNKNOWN
1185	SNOWSHED
1185	SNOWSHED: GENERIC/UNKNOWN
1276	TANK: HORIZONTAL, UNKNOWN
1276	TANK: HORIZONTAL,N/A
1277	TANK: VERTICAL,OTHER
1277	TANK: VERTICAL, OTHER
1278	TANK: VERTICAL,WATER
1278	TANK: VERTICAL, WATER
1290	TOWER: CLEARANCE
1291	TOWER: COMMUNICATION
1291	TOWER: COMMUNICATION
1292	TOWER: CONTROL
1292	TOWER: CONTROL
1293	TOWER: FIRE
1294	TOWER: LOOKOUT
1376	TUNNEL: GENERIC/UNKNOWN
1376	TUNNEL
1423	WALL
1424	WALL/FENCE: FENCE
1425	WALL/FENCE: WALL
1480	WELL: PETROLEUM
1481	WELL: WATER
1722	HAZARD TO AIR NAVIGATION: CHIMNEY
1723	HAZARD TO AIR NAVIGATION: TANK
1724	HAZARD TO AIR NAVIGATION: CROSS
1727	HAZARD TO AIR NAVIGATION: WATER DISTURBANCE
1728	HAZARD TO AIR NAVIGATION: BRIDGE
1729	HAZARD TO AIR NAVIGATION: NAVIGATIONAL AID
1731	HAZARD TO AIR NAVIGATION: TOWER

Toll Booths (tol)

Location

\POI\ directory

Structure

Field Name	Field Type	Field Size	Description
Name	Character	30	Name of Toll Booth
Location	Character	100	Location of Toll Booth
City	Character	45	City (or closest municipality)
Prov	Character	2	Province
Direction	Character	2	Direction of road that Toll Booth is located on
Type	Character	10	Indicates point as a Toll Booth
Category	Character	40	Category
Fcode	Decimal	11,0	Feature Code
Scode	Decimal	11,0	Symbol Code
Prec_code	Character	2	Representative point flag, this identifies the method used to geographically position the coordinate

Contents

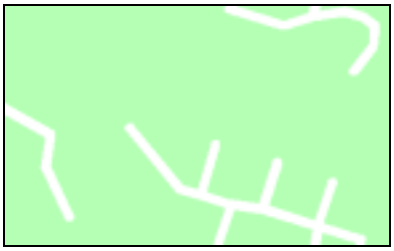
Type

Value	Description
TOL	Toll Booth

Feature Codes

Toll Booth Type	FCode
Toll Booths	711

Trail Casements (tlc)



Location

\STREETS\ directory

Structure

Field Name	Field Type	Field Size	Description
Street	Character	64	Street Name
Rds_ Id	Decimal	9,0	UniqueID of related RDS segment

Topographic Area (top)

Location

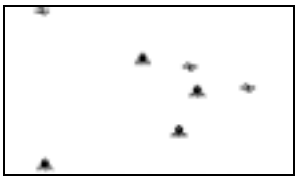
\CANADA\ directory

Structure

Field Name	Field Type	Field Size	Description
Full_Name	Character	68	Topographic Area Name
Prov	Character	2	Province
Name	Character	5	Topographic Area Name Abbreviation

Note: Boundaries outline urban areas where topographic layers are provided.

Transportation (trp)



Location

\POI\ directory

Structure

Field Name	Field Type	Field Size	Description
Site_Type	Character	76	Feature description
Category	Character	40	Points of Interest Category
Address	Character	40	Address
City	Character	68	Municipality
Prov	Character	2	Province abbreviation
Fcode	Decimal	11,0	Feature code
Scode	Decimal	11,0	Symbol code

Contents

FCode	Point of Interest
701	COAST GUARD STATION
702	RAILWAY STATION
703	SEAPLANE BASE/ANCHORAGE: ANCHOR
704	SEAPLANE BASE/ANCHORAGE: BASE
705	SHIPYARD
706	WEIGH SCALE (HIGHWAY)

Canadian Time Zones (tzs, tzv)

Location

\CANADA\ directory

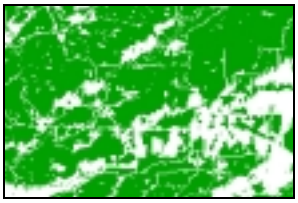
Structure

Field Name	Field Type	Field Size	Description
Time_Zone	Character	60	Name of Time Zone
DevFromGMT	Decimal	5,1	The difference in hours from Greenwich Mean Time

Time Zone Boundaries

Time Zone Boundaries are useful in call center applications. These files represent time zone areas throughout Canada for both Standard Time and Daylight Savings Time. The boundaries match to the CanMap® regional municipalities. Due to uncertainty within the new territory of Nunavut, and a proposal to maintain a single time zone throughout the territory, the boundaries may require alteration when this change has been legislated. As new information becomes available DMTI Spatial will include any refinements in the time zone files.

Vegetation (ve)



Location

\TOPO\ directory

Structure

Field Name	Field Type	Field Size	Description
Code	Decimal	11,0	Classification Code
Feature	Character	76	Feature Type

Contents

Code	Feature
834	PEAT CUTTING
834	PEAT CUTTING: GENERIC/UNKNOWN
1343	TREE NURSERY
1410	VEGETATION: ORCHARD
1411	VEGETATION: VINEYARD/HOPFIELD
1412	VEGETATION: WOODED AREA
1413	VEGETATION: TREE NURSERY

National Water (wat)

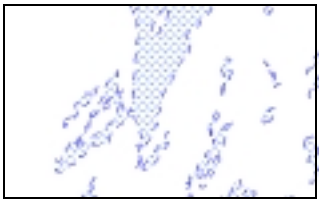
Location

\CANADA\ directory

Structure

Field Name	Field Type	Field Size	Description
Name	Character	40	Lake/River Name

Wetlands (we)



Location

\TOPO\ directory

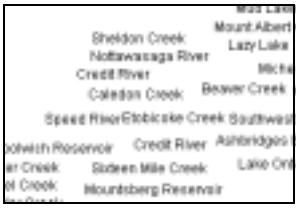
Structure

Field Name	Field Type	Field Size	Description
Code	Decimal	11,0	Classification Code
Feature	Character	76	Feature Type

Contents

Code	Feature
1253	STRING BOG
1253	STRING BOG: GENERIC/UNKNOWN
1492	WETLAND
1492	WETLAND: GENERIC/UNKNOWN

Water Feature Labels (wl)



Location

\TOPO\ directory

Structure

Field Name	Field Type	Field Size	Description
Name	Character	100	Feature Name
Code	Decimal	11,0	Classification Code
Feature	Character	76	Feature Type
Eng_Fr_Dup	Character	3	Coincident Labels in English/French

Contents

Code	Feature
1852	TOPONYM: HYDROGRAPHY
1853	TOPONYM: SHORELINE

Road Classification

Field Name: Carto

Code	Type	Description	Appearance
1	Expressway	Expressways and 400 series highways, e.g. Highway 401, Don Valley Parkway	Teal and white dashed
2	Primary Highway	Primary Highway, e.g. Highway 7, Highway 11	Thick Red
3	Secondary Highway	Secondary Highways	Thick Orange
4	Major Roads, Arterial Road	Major road or Arterial road, e.g. Bayview Ave. (Toronto)	Thick Black
5	Local Road	Subdivision road in a city or gravel road in rural area	Thin Black
6	Trail	Trails	Thin Green
20	Ferry Route	Approximate travel route of Ferry	Thin Dark Grey Dashed
21	Ferry Ramp	Ferry Ramp	Thin Dark Grey
22	Ice Road	Approximate travel route of Ice Road	Thin Dark Grey Dashed
23	Ice Ramp	Ice Ramp	Thin Dark Grey
24	Ferry Route/Ice Road	Approximate travel route of Ferry/Ice Road	Thin Dark Grey Dashed
25	Ferry/Ice Ramp	Ferry/Ice Ramp	Thin Dark Grey

CanMap® Street Directions

((F) French)

Direction	Abbreviation
East	E
Est (F)	E
North	N
Nord (F)	N
South	S
Sud (F)	S
West	W
Ouest (F)	O
North East	NE
North West	NW
South East	SE
South West	SW

CanMap® Street Types and Abbreviations

Roads **(rds)**, Highways and Major Roads **(hrd)**, Highways **(hwy)** Layers - ((E) English, (F) French)

A	
Abbey	ABBEY
Acres	ACRES
Allée	ALLÉE
Alley	ALLEY
Autoroute	AUT
Avenue	AVE (E)
Avenue	AV (F)

B	
Bay	BAY
Beach	BEACH
Bend	BEND
Boulevard	BLVD (E)
Boulevard	BOUL (F)
By-Pass	BYPASS
Byway	BYWAY

C	
Campus	CAMPUS
Cape	CAPE
Carré	CAR
Carrefour	CARREF
Centre	CTR (E)
Centre	C (F)
Cercle	CERCLE
Chase	CHASE
Chemin	CH
Circle	CIR
Circuit	CIRCT
Close	CLOSE
Common	COMMON
Concession	CONC
Corners	CRNRS
Côte	CÔTE
Cour	COUR
Court	CRT
Cove	COVE
Crescent	CRES
Croissant	CROIS
Crossing	CROSS
Cul-de-sac	CDS

D	
Dale	DALE
Dell	DELL
Diversion	DIVERS
Downs	DOWNS
Drive	DR

E	
Échangeur	ÉCH
End	END
Esplanade	ESPL
Estates	ESTATE
Expressway	EXPY
Extension	EXTEN

F	
Farm	FARM
Field	FIELD
Forest	FOREST
Freeway	FWY
Front	FRONT

G	
Gardens	GDNS
Gate	GATE
Glade	GLADE
Glen	GLEN
Green	GREEN
Grounds	GRNDS
Grove	GROVE

H	
Harbour	HARBR
Heights	HTS
Highlands	HGHLDS
Highway	HWY
Hill	HILL
Hollow	HOLLOW

I	
Île	ÎLE
Impasse	IMP
Island	ISLAND

K	
Key	KEY
Knoll	KNOLL

L	
Landing	LANDNG
Lane	LANE
Limits	LMTS
Line	LINE
Link	LINK
Lookout	LKOUT
Loop	LOOP

M	
Mall	MALL
Manor	MANOR
Maze	MAZE
Meadow	MEADOW
Mews	MEWS
Montée	MONTÉE
Moor	MOOR
Mount	MOUNT
Mountain	MTN

O	
Orchard	ORCH

P	
Parade	PARADE
Parc	PARC
Park	PK
Parkway	PKY
Passage	PASS
Path	PATH
Pathway	PTWAY
Pines	PINES
Place	PL (E)
Place	PLACE (F)
Plateau	PLAT
Plaza	PLAZA
Point	PT
Port	PORT
Private	PVT
Promenade	PROM

Q	
Quay	QUAY

R	
Rang	RANG
Range	RG
Ridge	RIDGE
Rise	RISE
Road	RD
Rond-point	RDPT
Route	RTE
Row	ROW
Rue	RUE
Ruelle	RLE
Run	RUN

S	
Sentier	SENT
Square	SQ
Sideroad	SR
Street	ST
Subdivision	SUBDIV

T	
Terrace	TERR
Terrasse	TSSE
Thicket	THICK
Towers	TOWERS
Townline	TLINE
Trail	TRAIL
Turnabout	TRNABT

V	
Vale	VALE
Via	VIA
View	VIEW
Village	VILLGE
Vista	VISTA
Voie	VOIE

W	
Walk	WALK
Way	WAY
Wharf	WHARF
Wood	WOOD
Wynd	WYND

CanMap® Region Codes

Provinces

Province	CanMap® Code
Alberta	AB
Atlantic	AT
British Columbia	BC
Manitoba	MB
New Brunswick	NB
Newfoundland	NF
Nova Scotia	NS
Northwest Territories	NT
Nunavut	NU
Ontario	ON
Prince Edward Island	PE
Quebec	QC
Saskatchewan	SK
Yukon Territory	YT

Urban Areas

CanMap® Urban Areas are the areas in which the more detailed layers are available. Only road casement boundaries[1] and topographic layers are available in CanMap® Urban Areas.

New Brunswick

Urban Area	CanMap® Code
Bathurst	BTHST
Cambellton	CMBTN
Edmundston	EDMSN
Fredericton	FRDTN
Miramichi	MRMCH
Moncton	MNCTN
Saint John	STJON

Newfoundland

Urban Area	CanMap® Code
Corner Brook	CRNBK
Gander	GNDR
Grand Falls-Windsor	GFWDR
Labrador City	LBDRC
St. John's	STJHN
Stephenville	STEVL

Nova Scotia

Urban Area	CanMap® Code
Amherst	AMHST
Halifax	HALFX
New Glasgow	NGLGW
Truro	TRURO
Yarmouth	YRMTH

Prince Edward Island

Urban Area	CanMap® Code
Charlottetown	CHLTN
Summerside	SMRSD

[1] Casement boundaries are not available in E00 format.

Alberta

Urban Area	CanMap® Code
Brooks	BRKS
Calgary	CLGRY
Camrose	CMBRS
Canmore	CANMR
Edmonton	EDMNT
Grande Prairie	GRNDP
Hinton	HNTN
Lacombe	LCMBE
Lethbridge	LTHBG
Lloydminster, Alberta	LMSTA
Medicine Hat	MDHT
Okotoks	OKTKS
Red Deer	REDDR
Wetaskiwin	WTSKN
Whitecourt	WTCRT

British Columbia

Urban Area	CanMap® Code
Abbotsford	ABTFD
Campbell River	CMBLR
Chilliwack	CHLWK
Coldstream	CDSTM
Comox	COMOX
Courtenay	CRTNY
Cranbrook	CRANB
Dawson Creek	DNCRK
Duncan	DNCN
Fort St. John	FTSTJ
Kamloops	KMLPS
Kelowna	KLWNA
Merritt	MRRTT
Nanaimo	NNMO
Nelson	NLSN
Parksville	PKSVL
Penticton	PNTTN
Port Alberni	PTALB
Powell River	PWLRV
Prince George	PRGRG
Prince Rupert	PRRPT
Quesnel	QUSNL
Revelstoke	RVLST
Squamish	SQMSH
Summerland	SMLND
Terrace	TERCE
Trail	TRAIL
Vancouver	VNCVR
Vernon	VRNON
Victoria	VCTRA
Williams Lake	WLMLK

Manitoba

Urban Area	CanMap® Code
Brandon	BRNDN
Dauphin	DPHIN
Portage la Prairie	PTGLP
Steinbach	STENB
Thompson	TMPSN
Winnipeg	WINPG

Northwest Terrirtories

Urban Area	CanMap® Code
Yellowknife	YLKNF

Ontario

Urban Area	CanMap® Code
Barrie	BARRI
Belleville	BELVL
Brantford	BTFRD
Brockville	BRKVL
Carleton Place	CLTNP
Chatham	CHTHM
Cobourg	COBRG
Collingwood	CLGWD
Cornwall	CRNWL
Fergus	FRGUS
Midland	MDLND
North Bay	NBAY
Orillia	ORILA
Ottawa	OTAWA
Owen Sound	OWNSD
Pembroke	PMBRK
Peterborough	PTRBR
Port Hope	PRTHP
Renfrew	RNFRW
Sarnia	SRNIA

Fort Frances	FTFCS	Sault Ste Marie	SSM
Goderich	GDRCH	Simcoe	SMCOE
Greater Toronto Area	GTA	Smiths Falls	SMTHF
Guelph	GULPH	Stratford	STRFD
Hamilton - Wentworth and Niagara Regional Municipalities	HAMNG	Strathroy	STRRY
Hawkesbury	HWBRY	Sudbury	SDBRY
Ingersoll	INGSL	Thunder Bay	THNDR
Kapuskasing	KPSKG	Tillsonburg	TLSNB
Kenora	KENRA	Wallaceburg	WLCBG
Kingston	KGSTN	Wasaga Beach	WSGAB
Leamington	LMNTN	Waterloo Regional Municipality	WATWE
Lindsay	LNDSY	Windsor	WNDSR
London	LONDN	Woodstock	WDSTK

Quebec

Urban Area	CanMap® Code	Urban Area	CanMap® Code
Alma	ALMA	Rimouski	RMSKI
Chicoutimi-Jonquiere	CHJNQ	Riviere-du-Loup	RVDLP
Cowansville	CWNVL	Rouyn-Noranda	RYNDA
Dolbeau	DOLBU	Saint-Charles-Borromee	SCBRM
Drummondville	DMDVL	Sainte-Marie	SMRIE
Granby	GRNBY	Saint-Georges	SGRGS
Hull	HULL	Saint-Hyacinthe	SHYCN
Joliette	JOLET	Shawinigan	SLRNT
Louiseville	LISVL	Sherbrooke	SHRBK
Magog	MAGOG	Sorel	SOREL
Matane	MATAN	Thetford Mines	TTFDM
Mistassini	MSTSN	Tracy	TRACY
Montreal Greater Area	MNTRL	Trois Rivieres	TRRIV
Quebec City	QBCTY	Victoriaville	VTRVL

Saskatchewan

Urban Area	CanMap® Code	Urban Area	CanMap® Code
Estevan	ESTVN	Regina	RGNA
Lloydminster, Saskatchewan	LMSTS	Saskatoon	SSKTN
Moose Jaw	MSJAW	Swift Current	SWFCT
North Battleford	NBLFD	Weyburn	WYBRN
Prince Albert	PALBT	Yorkton	YRKTN

Yukon Territory

Urban Area	CanMap® Code
Whitehorse	WTHRS

***Please contact DMTI Spatial for information pertaining to the municipalities and/or regional municipalities that are included in each urban area.

Census Subdivision Boundaries and Data

Note: Please refer to the document *Cen96CSD.pdf* that is included in your shipment, for a full description and detailed file structure of all the CSD boundaries and data included in the Canada directory.

Location

\CANADA\ directory
Directories included: Census\1996\Csd\Bdy
Census\1996\Csd\Data

Description

Census Subdivision is the general term applied to municipalities (as determined by provincial legislation) or their equivalent (for example, Indian reserves, Indian settlements and unorganized territories).

Structure & Contents

The census data is broken up into the releases listed below. For each release, the filename is provided along with a description and structure of its contents.

- Age, Sex and Marital Status - Age_csd
- Families: Number, Type and Structure - Fam1_csd
- Structural Type of Dwelling and Household Size - Dwel_csd
- Immigration and Citizenship - Imm_csd
- Mother Tongue, Home Language and Official/Non-Official Languages - Lan1_csd, Lan2_csd
- Aboriginal - Abor_csd
- Ethnic Origin and Population Group - Eth1_csd, Eth2_csd
- Labour Market Activities - Lab1_csd, Lab2_csd
- Household Activities - Hous_csd
- Place of Work and Mode of Transportation - Plac_csd
- Education - Educ_csd
- Mobility and Migration - Mob_csd
- Sources of Income, Earnings, Total Income and Family and Household Income - Inc1_csd, Inc2_csd
- Families: Social and Economic Characteristics - Fam2_csd
- Occupied Private Dwellings and Housing Costs - Dwl2_csd

Appendix A: Displaying Points of Interest files with Proper Fonts

For ArcView Users only:

ESRI True Type font files have been included with CanMap® V5.0 for ArcView in order to properly view the DMTI Spatial Points of Interest symbology. Some of the point symbols were created using True Type font palette files from Arc/Info 8.0.2 that are not included with ArcView 3.x (or above). These files (.TTF) can be found in the 'Fonts' folder and must be copied and pasted into the Winnt\Fonts\ folder on your computer. If you have ArcView already open before copying files, close ArcView and re-open.

The Windows 'Winnt' folder is generally found on the C: drive, but it may be located on another drive. (Contact your IT department for correct placement of files).

If you are using Arc/Info 7.2.1 (or above) on the same computer as ArcView 3.x (or above), the .TTF files may already be located in the 'Winnt\Fonts\' folder. Therefore it may not be necessary to copy the files to properly display the CanMap® Points of Interest.

Appendix B: CanMap® Label Tool for ArcView

Overview:

There are two custom built buttons to manage the standard labeling of CanMap®. The first is the CanMap® Label Button used to create the standard CanMap® labels for the current extent of the view  , and the second is the Remove Labels Button used to remove labels from the entire view  . They are both located in the view's button bar to the left of the Help button.

Usage:

Label Button:
1. Click the Label Button
2. Before the labels are drawn, all existing labels will be deleted, except for user-customized labels (i.e. labels that have been manually added, or moved on selected themes shown in Table 1).

Remove Labels Button:
1. Click the Remove Labels button
2. The user will be asked to confirm that they do in fact want to proceed in the deletion of the labels. If they click 'Yes', only the CanMap® Label Button created labels will be deleted. By choosing 'No', all labels (including user-customized) will be deleted.
3. The second prompt asks the user to specify if they want to delete all labels (including user-customized) or only CanMap® Label Button created labels. By choosing 'Yes', only the CanMap® Label Button created labels will be deleted. By choosing 'No', all labels (including user-customized) will be deleted.

Notes:

- Themes are labeled depending on the current scale of the view. (See Table 1 for the themes that are labeled and the scale ranges during which labels are applied). Each theme has predefined scale ranges to determine when it will be labeled (e.g. Municipalities are labeled at scales between 1:1,000,000 and 1:100,000).
- Labels are created only for the visible extent of the view when using the CanMap® Label Button.
- When the user changes the scale of the view (i.e. zooming in or out or manually changing the scale value) all labels in the entire view (except for any user-customized labels) will be deleted.
- When the user moves a label (i.e. using the pointer tool), that label is subsequently considered to be a user-customized label.
- If the user manually adds a label (using ArcView's label tool) to one of the layers labeled by the CanMap® Label Button, the label will automatically be changed to the size and font style defined by the CanMap® Label Button for that layer. The label is then subsequently considered to be a user-customized label.
- If the newly added label overlaps another existing user-customized label with the same text, the newly created label will not be applied. If the existing label is not a user-customized label then the existing label will be removed and replaced by the new user-customized label.
- Labels created with the CanMap® Label Button will function like labels created using ArcView's auto-labeling tool (e.g. if you change the size and/or font style for one label in the Roads theme, all labels for the Roads theme will change as well.) User-customized labels are independent.

- The CanMap® Label Tool is not customizable, but does not prohibit the user in any way from using ArcView's label or auto-labeling tools to custom-label any theme or themes in any manner so desired.

Table 1: Labeled themes and their associated scale ranges in CanMap®

Theme	LLP	WLP	MUN	RMN	RDS	HRD	HWY
Minimum Scale	0	0	100,000	1,000,001	0	25,001	50,001
Maximum Scale	100,000	100,000	1,000,000	3,500,000	25,000	50,000	275,000

Appendix C: CanMap® Data Set Configuration for MapGuide:

The areas that need to be setup or configured are:

Installing the Files.
Web directory pointing to Html and MapGuide Window File (MWF).
MapGuide Server Setup.
ODBC Data Source Name (DSN)
MapGuide MWF File setup.

1. Installing the Files:

Once the files are on the local hard drive, it is recommended that you move the SDF and DBF files to another directory where they can be better protected from the Internet. Please refer to the MapGuide manual for permissions and security recommendations.

The following folders will be provided:

dbms\Canada – databases for free Canada directory
dbms*CanMap® Region Code* – databases for desired geographic area
docs – files for setup etc.
images – wmf, bmp, tiff, jpeg, etc.
maps – map window files
mlf – map layer files, if available
reports – Cold Fusion templates
scripts – if available
sdf*CanMap® Region Code* – MapGuide spatial data files for desired geographic area
sdf\Canada – MapGuide spatial data files for free Canada directory

2. Web Setup (if required)

If the files are moved to other directories, drives or machines than specified above, then you will have to create paths to these machines. MapGuide and Cold Fusion support UNC paths but they may require setup where they are installed to take advantage of this distributed environment. Please see the MapGuide documentation on the website www.mapguide.com

You may also have to modify paths in the Map Window Files (.mwf) for reports.

3. MapGuide Setup:

In MapGuide Server Admin, there is a path setting for both Sdf directories. Leaving the default paths in place, and using your own directory structure you would use the following:

SDF Search Path:
After the default directory - C:\Program Files\Autodesk\MapGuideServer4\sdf, add your own paths to sdf directories using a semi-colon to separate each sub-directory listing.

Note: the path directories are NOT case sensitive.

4. ODBC Setup:

The database setups are required so that any thematics for roads or land use etc. can be displayed and so that report queries can be generated.

Note: You will receive a set of dbf files for each project. It is highly recommended that you import the dbf files into an ODBC compliant database management program that is relational and allows the key fields to be indexed, e.g. Access, SQL Server, etc. Index the fields that define the unique database field and any field that has a theme generated from it, e.g. carto in the street layers.

You can set the DSN's up through the Control Panel > ODBC or you can use the Cold Fusion Administrator. Again, these settings are NOT case sensitive. Also note that if you are using Control Panel, each Data Source must be a *System DSN* not a User DSN.

If you are not using Cold Fusion, then you will have to convert the .cfm templates into your preferred reporting language.

5. MapGuide Window File Setup:

Each mwf file will have to be modified to use your Intra/Internet server name. The files you will receive will point to DMTI_MAPGUIDE.

Step 1. Open the mwf file and select all the layers in the left hand column. > Right click over these layers and select Properties… > replace dmti_mapguide with your web server name (e.g. www. .com)

Step 2. From the pull-down menus, select File > Properties… to bring up the mwf properties. Select the Reports Tab > Under the Properties URL, replace dmti_mapguide with your web server name for each report. Reports that can be generated include; all Roads layers (rds,hwy,hrd), POI layers, the *lur* layer and the *mun* layer.

Step 3. Select the Zoom Goto Tab to replace dmti_mapguide with your web server name. Zoom Goto's are provided for the Municipal Centroids (munc) layer.

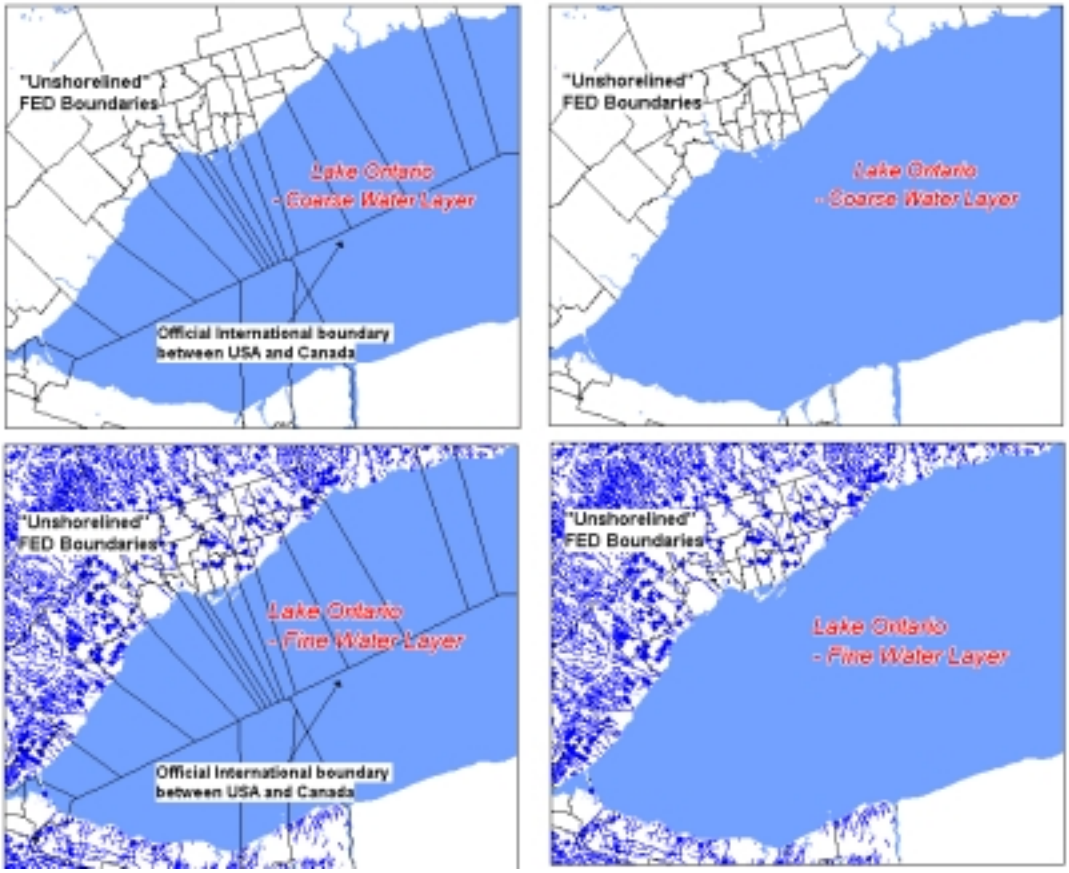
Step 4. Select OK for the Properties Dialogue box and Save the Map Window File.

Appendix D: Shorelined Vs. Unshorelined Boundaries

DMTI Spatial's standard boundaries are all referred to as "Unshorelined". We make our boundaries in such a way that our users can overlay different scales of water coverages depending on the scale of their analysis. CanMap® is packaged with 2 water coverages: CANwat (which is a coarse water body layer) and *AREA*hy (which is a fine water body layer available in Urban Areas). By including "Unshorelined" boundaries in the CanMap® product, users have the option of overlaying either the coarse, or fine water depending on the scale applicable for their analysis.

Unshorelined Boundaries

The following examples show the "Unshorelined" FED boundaries (from our Census product line) with the Coarse and Fine Water layers. The diagrams to the left show the boundaries layered on top of the water (with the official International boundary between USA and Canada). The diagrams to the right show the water layered on top of the boundaries.



Subset of Course Water Layer

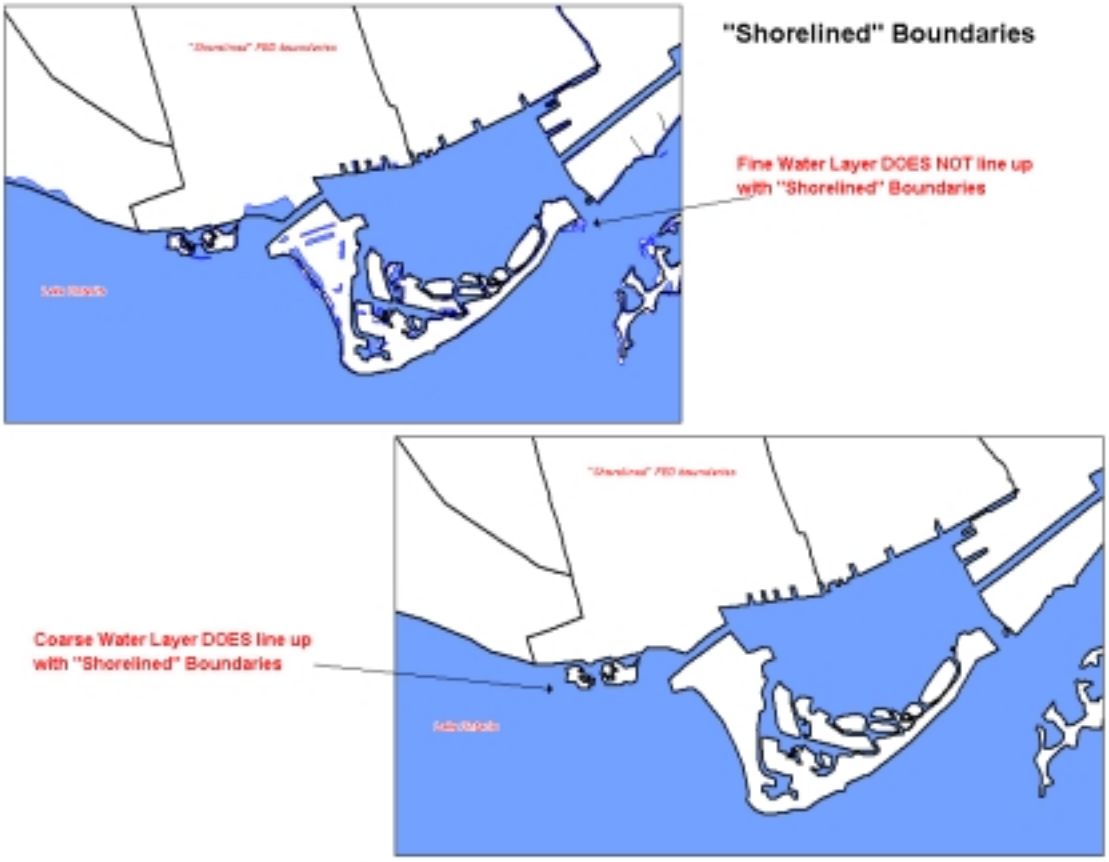
The DMTI Spatial "Shorelined" boundaries are made based on a subset of the Coarse water layer. All of the Major waterbodies are "punched out" from the boundaries, therefore creating a "Shorelined" effect. The following diagrams show the difference between the content of the entire Coarse water layer and the Subset used for the purpose of "Shorelining".

Entire Coarse Water Layer (CanWAT)

Major Water used to "Shoreline" boundaries based on Coarse Water Layer (CanWAT)

Use of Shorelined Boundaries

The following diagrams show why "Shorelined" boundaries are not recommended for use with both the Coarse and Fine water layers.



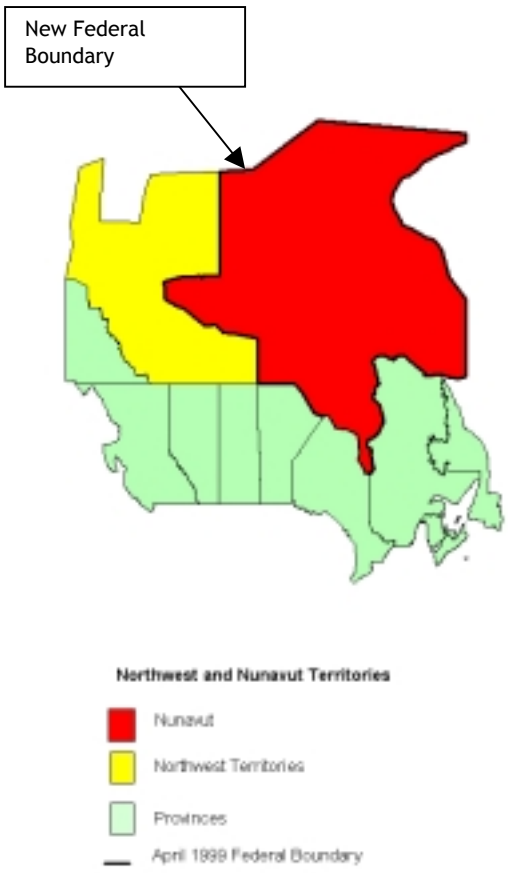
Note: To receive "Shorelined" boundaries please contact your DMTI Spatial Account Manager.

Appendix E: Nunavut

Federal Boundary

On April 1, 1999 the Northwest Territories was split into two Territories to create Nunavut Territory. The province/territory code for Nunavut is 62 and the territory symbol is NU as recognized by Canada Post Corporation. The code for the Northwest Territories remains 61. [Source: addendum to the 1996 Standard Geographical Classification (SGC) Statistics Canada]

Diagram 1 - New Federal Boundary – April 1999



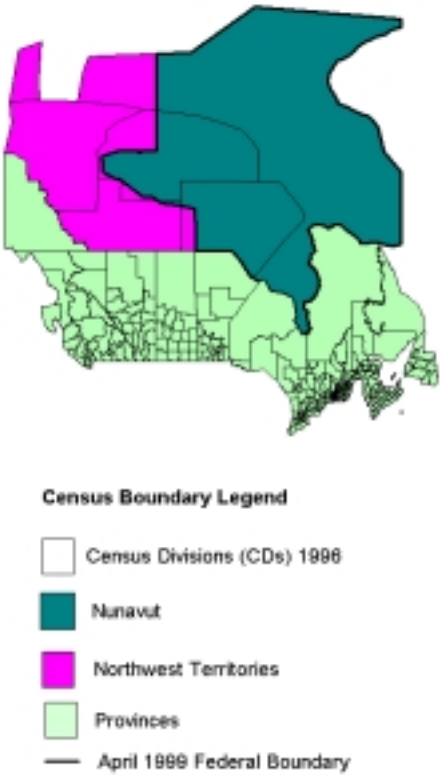
Census Divisions (CDs)

The five census divisions (CDs) that make up the Northwest Territories listed in the SGC are divided into Northwest Territories and Nunavut.

> Baffin Region (04), Keewatin Region (05) and Kitikmeot Region (08) (displayed below in green) are part of Nunavut. Fort Smith Region (06) and Inuvik Region (07) (displayed below in magenta) remain within the Northwest Territories. [Source: addendum to the 1996 Standard Geographical Classification (SGC) Statistics Canada]

The thick black line in *Diagram 2* shows the new Federal Boundary (April 1999). The thin black lines are the Census divisions referred to above. The two boundaries do not currently line up because the new Federal boundary came into effect in April 1999 and the new census boundaries will not be available until after the 2001 census is released. Once the new census data is available, the boundaries will be updated to line up with the Federal boundary.

Diagram 2 – Census Divisions



Census Subdivisions (CSDs)

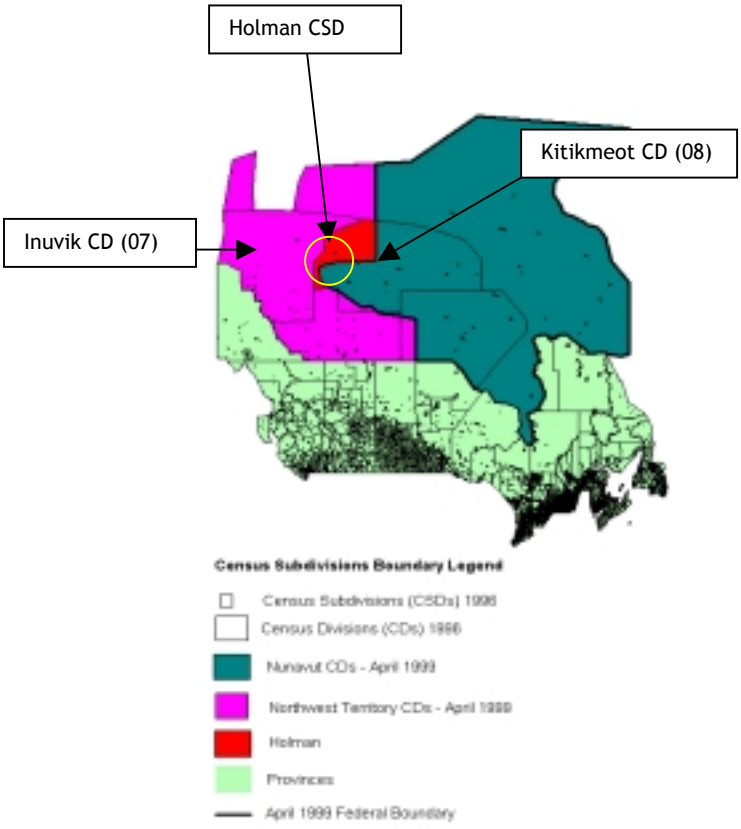
There are now 37 CSDs in the Northwest Territories and 31 CSDs in Nunavut.

For the geographic units of Nunavut, the first two digits of the SGC code have been changed from 61 to 62 and the rest of the digits have been retained as in the 1996 CD and CSD codes. For example, Resolute Bay CSD code formerly 6104022 becomes 6204022 and Baffin Region formerly 6104 becomes 6204.

The area outlined in red, in *Diagram 3* below, shows a part of Kitikmeot Region, including the CSD of Holman that has remained within the Northwest Territories. Both Holman and this part of the original Kitikmeot Region have become part of the Inuvik Region. Consequently, the CD code changed from 08 to 07.

These changes will be reflected in DMTI's new CDs and CSDs when the new census data is available and the boundaries realigned. [Source: addendum to the 1996 Standard Geographical Classification (SGC) Statistics Canada]

Diagram 3 – Census Subdivisions (CSDs)



Finally, there are two CSD name changes since the release of the 1996 SGC manual:

> 6104010 Broughton Island, HAM becomes 6204010 Qikiqtarjuaq, HAM; and
> 6106052 Snare Lake, SET is now named 6106052 Wekweti, SET. [Source: addendum to the 1996 Standard Geographical Classification (SGC) Statistics Canada]

All of DMTI's CSD, CD and EA boundaries and data have been updated with the new attribute information outlined above. The boundaries will not line up with the current federal boundary until after the new census boundary and data information is released by Statistics Canada. For example, any EA boundaries and consequent data that fall within the new Federal boundary for Nunavut as shown in Diagram 1 above, will have PRFEDEA, PRCDCSD and PRCD codes beginning with the digits 62. Those boundaries and data that fall within the new Northwest Territories boundary will have codes beginning with the digits 62. Those boundaries and data that fall within the new Northwest Territories boundary will have codes beginning with the digits 61.

Glossary of Terms

casement
A polygon representation of a road segment derived by buffering a road segment's centerline. The buffer width is not representative of the actual width of the road segment and is used only to aesthetically enhance the cartographic appearance of the road segment.

character
Stores up to 250 alphanumeric characters. You cannot perform arithmetic operations on numerals in a character field.

datum
A mathematical model that provides a smooth approximation of the earth's surface

decimal
Stores numbers in fixed-point decimal form. Do not put commas in decimal Integer: Stores integers (numbers without a decimal). The range is from -2 billion to +2 billion.

feature
A point, line or region defined in a CanMap database

latitude
The first component of a spherical coordinate system used to record positions on the earth's surface. Latitude indicates the angular distance north or south of the earth's equator measured through 90 degrees. See Longitude.

layers
A means of organizing and managing spatial data by type. Ie) Hydrological features (such as floodplains), parcel maps, railroads, and so on can be contained on separate layers for easy map creation and maintenance.

logical
These fields contain only true/false or yes/no information, stored as "T" for true/yes and "F" for false/no.

longitude
The second component of a spherical coordinate system used to record east-west postitions on the earth's surface, measured in degrees as the arc or position of the earth's equator intersected between the meridian of a given place and the prime meridian, which runs through Greenwich, England. See Latitude.

Nad
North American Datum. Most current is NAD83 which was adopted by the Canadian Federal Government in 1990, and supercedes the North American Datum of 1927 (NAD27).

NTDB
National Topographic Data Base, developed and maintained by Natural Resources Canada, forms the basis of the traditional National Topographic Series (NTS) 1:50,000 scale and 1:250,000 scale paper maps published by Natural Resources Canada

topography
The configuration of a surface including its relief and the position of its natural and man-made features